

Farm and Ranch Review

VOLUME LV.
NUMBER 1

CALGARY, ALBERTA
JANUARY, 1959



BARD
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no.1
1959

*"The soft blanket of winter hushes the babble of the brook
while the tired soil rests"*

● *Self-Help Schools*

● *Church with Its Coat Off*

● *Engineering a Family Farm*

● *Spotlight on Carcasses*

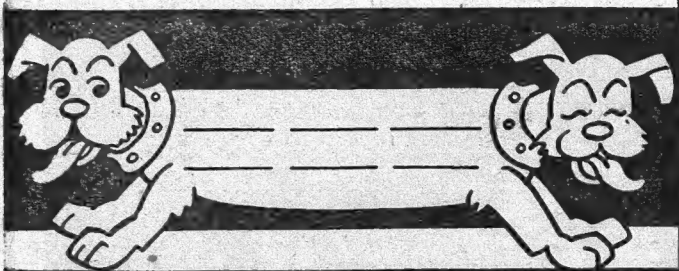
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FUNLAND

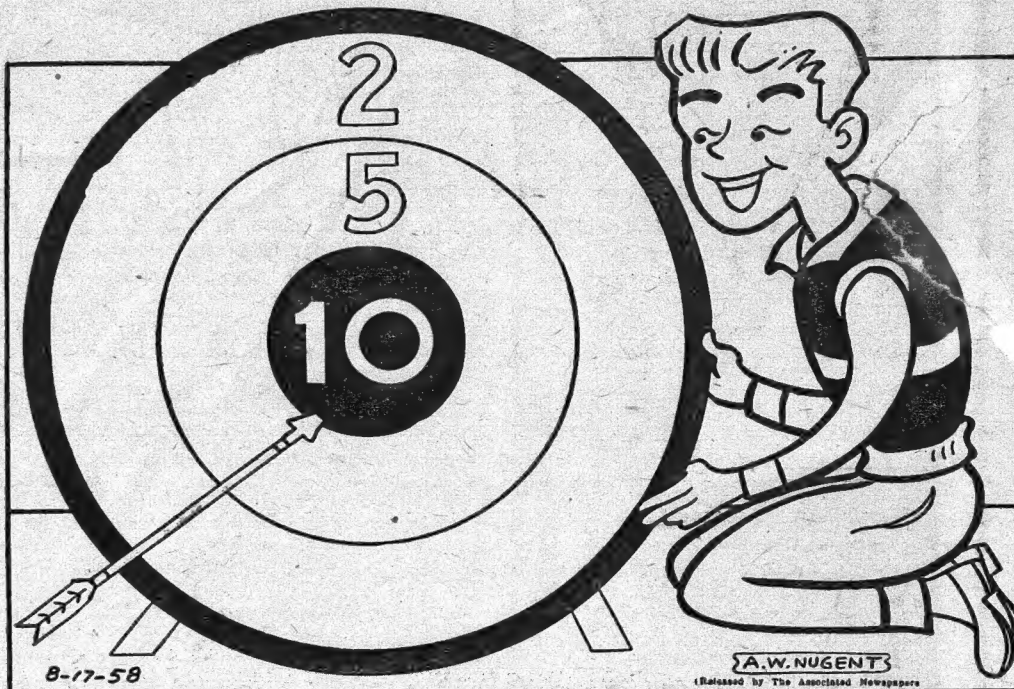
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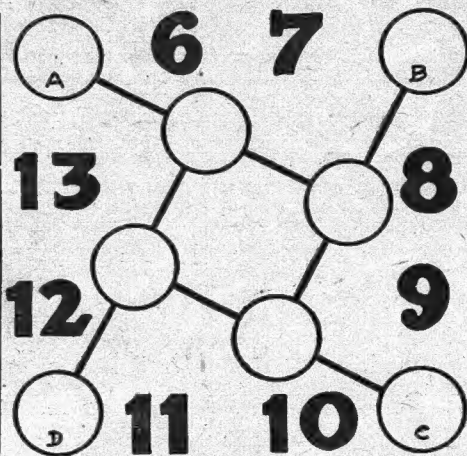
8-17-58

A.W. NUGENT

(Released by The Associated Newspapers)

HE HIT TEN 2'S (20) THIRTY 5'S (150) AND EIGHT 10'S (80) TOTAL: 250

TRANSFER THE GIVEN NUMBERS, INTO THE CIRCLES, SO THE ARRANGED THAT EACH OF THE FOUR ROWS TOTAL WILL 27.



A ROW 9, 2, 11
B ROW 10, 11, 6
C ROW 13, 6, 8
D ROW 12, 8, 7

QUIZ FUN

WE ARE EIGHT FRUITS. WHAT ARE OUR NAMES?

1 I AM AN APPOINTMENT.	2 MY NAME SUGGESTS TWO.	3 A COLOR AND A MONKEY, THAT'S ME.	4 I SUGGEST A MOVEMENT OF ELECTRICITY.
5 MY COMPLETE NAME IS A TREE AND A FRUIT.	6 I'M A METAL-BEARING AND MINERAL AND A COOKSTOVE.	7 I AM 1/2 OF A WORD MEANING NUMBER.	8 MY NAME SUGGESTS VERTICLE

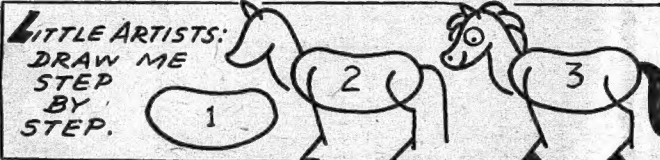
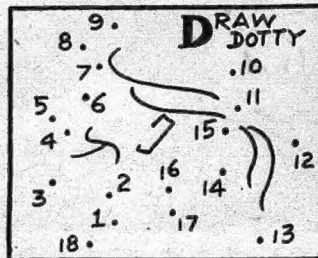
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DATE 2, PEAR (PAIR) 3, GRAPE (GRAY APE) 4, CURRANT (CURRENT) 5, PINEAPPLE 6, ORANGE (ORE RANGE) 7, FIG (FIGURE) 8, PLUM (PLUMB)

RHYME TIME



1 MARE	2 TRUNK	3 VOLT	4 VOTE
5 TOOL	6 LINK	7 WOOL	8 SHOE

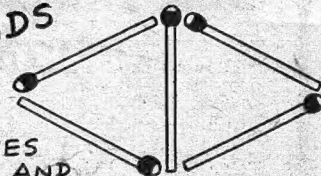


ADD FIVE STRAIGHT LINES TO THOSE BELOW TO SPELL A THREE-LETTER WORD.



TRICK YOUR FRIENDS

TAKE FIVE MATCHES OR TOOTHPICKS AND ARRANGE THEM AS PICTURED ABOVE. THEN INVITE SOMEONE TO TAKE AWAY TWO OF THE MATCHES, AND ADD THREE MATCHES SO THAT THE FIGURE WILL REMAIN THE SAME. WHEN HE FAILS, SIMPLY TAKE THE TWO MATCHES AT THE 1 THEN ADD THE REMAINING TH



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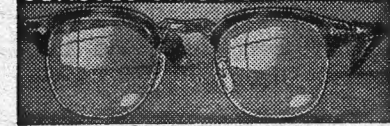
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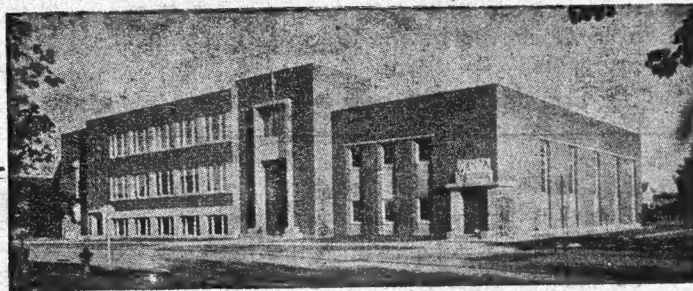
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Editorials . . .

"Brains" For Farming

New trends speed the Farm Revolution into the Electronic Age

AN advantage to living close to our populous neighbor to the South is the splendid show-window it provides for the study of new developments. Not that all the new ideas and trends originate in the United States, but when an innovation is tested over there it is usually on such a grand scale that any residual benefits or problems are more clearly evident and may be encouraged or avoided by ourselves. The U.S. proving ground gives us warning and helps us avoid pitfalls lying in our path. So it has been with automation, specialization, vertical integration, etc.

One of the more obvious trends in North American agriculture is the accent on more business-like farm operations, and, as usual, the U.S. has the greatest number of almost text-book examples. It has reached the point where there are more professional farm managers in some states than there are county agents (the U.S. equivalent of District Ags. or Ag. Reps.)

This has been accompanied by consolidation and integration which has changed the profile of U.S. farming substantially in the last four years. There are a quarter-million fewer U.S. farms today than in 1955, and the average size of the U.S. farm has increased 25%.

The industries that service agriculture are aware of the change. John L. Gillis,

Vice-President of Monsanto Chemical Company in St. Louis — a firm that supplies farmers with everything from fertilizers and insecticides to scientific advice — states that his salesmen are now finding their farm customers "more responsible businessmen, better qualified to judge the usefulness of a product in terms of its economic returns to him" than they were a short four or five years ago. He anticipates that farmers will prove to be increasingly well-informed and sophisticated in the coming decade, about new techniques and products.

U.S. farmers are not necessarily ahead of Canadian farmers in this respect, except in numbers. Canadians are coming up with their own ideas and from time to time even get ahead of the game.

There is, however, one field where U.S. farmers may have the jump on the industry. This is their business-like tendency to think in terms of very long-term planning when making investments in equipment, chemicals or anything else.

At least one poultry operation now has its own electronic computer to handle the complex calculations needed in such decisions. Mr. Gillis reveals that at least one state is even now planning to make available electronic brains to assist the smaller operators

Can this be the new trend?

credited CCF and the farmers, rings rather hollow. It appears more as a feeler than a boast; the reaction will be obvious.

Farmers practise democracy, and will not easily be harnessed with those who are already forced to jump through the hoop at the command of a few collectivists. They are building strong co-operatives and other democratic machinery, and are not likely to be lured astray by the blandishments of fast-talking organizers.

Any association with ambitious labor leaders could prove quite unpalatable. Farmers have suffered already in the face of current labor disputes. They have also had a ring-side seat to study the operations of big labor manipulations with their lack of secret ballots, their closed shops, their foreign control . . . and all the other abuses that have evolved from the original worthy objectives of the labor movement. These are hardly the things that farmers stand for.

Several of the organizers have previously been CCF candidates who were rejected at the polls. They hope that this back door will fool enough people into giving them the power they have already been denied. But farmers know only too well that socialists are not interested in what the people think. Socialists are only interested in telling people what to do. Saskatchewan's government was accepted by the farmers only after it modified its aims and dropped its most radical policies. The province now has a socialistic government in name only, that barely dabbles in government regimentation. Nevertheless, they are in power and the machinery is set up, and the danger is ever present that the time will come when they will feel secure enough to ride roughshod over farm opinion.

No, there isn't much likelihood that farmers will swallow this one.

Persistent illusion

THERE are none so blind as those who refuse to see.

Two more institutes of agriculture have had to close down in East Germany for lack of teachers . . . and this in a region that was once the bread-basket of the pre-war German nation. So far during the current school year, 41 more university professors, lecturers and assistants have fled from the dictatorship of their Monopoly State.

So it is in any country where the government is permitted to grow to the point where the civil servant becomes the master. So it is in any country where highly vocal and highly organized minorities are permitted to speak for others to the point where

they soon have the power to dictate to others.

One can be sure that the farm people of East Germany have lost a great deal more than just a couple of schools of agriculture. Yet with such tragic examples before us every day, the illusion still persists in the minds of some that big government can solve all our problems, or that granting power to a few to exert compulsion on many will bring us a prosperous and orderly way of life.

Feeler or boast

THE proclamation by the Canadian Labor Congress that it intends to build a new political party closely allied with the dis-

The right to fail

IT'S a pity that one can't hear or read everything, and be everywhere at the same time. If we could, none of us would have missed the words of wisdom spoken by Dr. Earl L. Butz, who used to be U.S. Assistant Secretary of Agriculture and is now Dean of Agriculture at Purdue University, Indiana.

Dr. Butz, with a world of experience in both private and public business, made some strong points on free enterprise to the American Bankers' Association.

While admitting Russian progress under a controlled economy, the free enterprise system of the U.S. has doubled the size of its economy in less than 20 years and expects to repeat this in the next 20 years.

He pointed out that the free enterprise system has given North America half the

May All Our Readers Enjoy the

Happiness and Prosperity of the New Year

world's automobiles with only 7% of the world's population. Also, it has developed half the world's electric power production, over half the world's telephones, two-fifths of the world's steel production capacity. Proportionally more young people are in U.S. schools and colleges than any other nation; over 95% of North American farms are electrified; radios, TV, refrigerators, deep freezes are all commonplace in our homes. Construction is still going ahead with new homes, schools, churches and industrial plants, and food production and processing is so efficient that the growing population is one of the best fed on earth and yet has surpluses to ship overseas.

Dr. Butz said: "Our scientific agriculture, based on research and technology, is so efficient that we now feed and clothe our entire population with only 12% of our people on farms. The first claim of any society upon its total production resources is to get enough food to keep the population alive. This is done so efficiently in the U.S. that almost nine-tenths of the population is available to produce the wide variety of goods and services that make up the American standard of living."

By way of contrast, Russia's socialized structure is so inefficient that some 40% of its workers are required to produce enough food to keep the population going at subsistence level.

So long as our output per worker remains three times above theirs, there can be little doubt concerning the ultimate outcome of the struggle between our two systems.

In recent years, a great many sectors of U.S. agriculture and industry have fallen under government controls and restrictions. When a community gets itself into the fix of producing for the government rather than producing for a growing market, it almost inevitably finds a ceiling placed on opportunity. Government production and marketing controls are essentially backward-looking, not forward-looking. Under these circumstances producers with above-average managerial capacity and ambition are severely limited in what they can do. They suffer, the consumer suffers, and the community suffers.

We must try to preserve a proper relationship between industry and government. We must always keep private enterprise the senior partner, and government the junior partner. There are many who would change this relationship.

In our free society, the right to succeed carries with it the right to fail. If, through legislation action of one kind or another, we remove the right to fail, we ultimately will also remove the right to succeed beyond mediocrity."

Dr. Butz speaks from civil service experience.

Shaky ground

AT its Annual Meeting in Edmonton, the Farmers' Union of Alberta came out forthrightly for government encouragement of compulsory marketing boards. This is not at all surprising, since the officers and the most active members have been recom-

mending compulsory boards for some time. They could as easily as not represent the overall majority of Alberta farmers on the subject, although only a plebiscite would show this for sure.

It is surprising, however, that the Livestock Committee within the Union has come out just as forthrightly as the rest, with a recommendation — presumably on behalf of Alberta's stockmen — that the Farmers' Union advocate and work for the establishment of compulsory boards.

Without a touch of embarrassment and in spite of the fact that Alberta stockmen have consistently opposed marketing boards and poultrymen have more recently shown little interest in them, the Livestock Committee still claims to express the wishes of the farmer on the matter. Until another plebiscite to the contrary, it appears that the Committee speaks for no one but the committee.

As was stated in these pages last October: "The outcome of the (Sask. and Alta. egg marketing board) plebiscites should be grounds for some deep soul-searching on the part of prairie farm leaders. Their bold statements that they always speak the mind of most farmers on any issue are henceforth suspect. Only a true vote of all the farmers gets right back to the grass roots. The egg plebiscites revealed exactly what most of the farmers thought and not just what a few would like them to think."

Such defiance by the Committee of the expressed feelings of so many farmers is a definite reflection on the statements of the whole Farmers' Union when it claims to speak with one big voice for the many little farm voices on any subject. How can the government be expected to listen to their demands on behalf of the farmer when they are based on such shaky ground.

A force for good

IF size alone means anything, the growth of co-ops around this shrinking globe could be important.

The International Co-operative Alliance now claims 82 directly affiliated organizations in 43 different countries—including the Co-operative Union of Canada. This figure can be expanded into more than 132,500,000 co-operators and their families, grouped in 452,000 affiliated societies as follows:

Consumers' Societies	63,900,000
Agricultural Societies	17,000,000
Credit Societies	41,000,000
Building and Housing Societies.....	2,300,000
Productive and Artisanal Societies	1,100,000
Miscellaneous Societies	6,800,000
Total annual trade, 7,765,000,000 pounds sterling.	

Own production, 1,670,000,000 pounds sterling.

Even in an age of "bigness" these are big figures. Anything that transcends international boundaries in this uncertain age, may be a force for good or evil. If adhered to, the true principle of world-wide co-operation could certainly be a force for good. Grass-root members must see that it remains so.

Communist price spread

WHILE price spreads have their undeniable shortcomings, they are not necessarily a fault of our free enterprise system. They are just the latest innovation or adjustment in the constant and unending evolution of our economy. These changes have in the past, do now, and will in the future pose problems; in this case for the farmers.

Far from demonstrating a weakness, our democratic system of free enterprise is showing its strength in that it permits us the flexibility to feel our way — unhindered — to a readjustment. Even with its outward appearance of confusion and frustration it nevertheless is quite efficient and possesses all the built-in machinery to protect the individual.

There is little doubt that consumer demand for extra services is ultimately behind the development of "price spread." Farmers are seeking — and will eventually find — a solution to their problems relating to the adjustment, but in the meantime the consumer, at least, is getting what he wants.

Not so the Russian consumer. He gets the price spreads but doesn't even get the service. This Russian "price spread" is, therefore, a double headache for the Communists and is directly due to the costs of running the vast Communist bureaucracy ... the millions of government officials who are non-productive but who must be kept up by the consumers.

The Communist solution is typically that of any socialist dictatorship. Orders have gone out from the bureaucrats for the farmers to take up the slack. The collective farms have been ordered to boost production and cut down on the high cost of vegetables to the point where top-quality potatoes can retail for as low as 3c a pound. (Present retail price of potatoes is 14c a pound, which under the Russian socialistic economy is burdensome to consumers.) The farmers have no appeal.

While we search for our solution, we must not be deluded into believing that socialism in any form can provide easy answers to our problems any more than any other system.

Around the free world the causes of price spreads are not only different, but the adjustments are different too, and a great variety of experiments are under way to find a satisfactory adjustment to this latest change in conditions.

Democracy, itself, is not a solution. It is simply a system that cuts through the bonds that would limit the search for a solution. The laws of supply and demand cannot be repealed by a government official passing out orders. Socialism wraps society in an ever increasing number of restrictions, it passes laws that are easy to introduce, but almost impossible to eradicate (short of revolution), brings about ever more regimentation, and eventually degenerates into a dictatorship.

Socialism has been tried countless times throughout history and rejected an equal number of times. Usually rejection has been accomplished by violence when the people discovered too late that socialism has built-in machinery for the abuse of power.

AGRICULTURAL people read and hear much about livestock shows — not as much about “deadstock” shows or meat shows. The former are glamorous and popular; the latter, searching and close to utility. More emphasis upon carcass and meat values would help to establish proper type ideals for breeders and be generally good for the beef, pork and lamb industries.

As everybody knows, there have been grand champions in meat classes which proved colossal disappointments when seen on the butcher's rail. One champion steer in particular comes to mind. On foot, the animal was magnificent — symmetrical, fat and everything a judge might hope to find. Dressed and quartered, however, it was another story; the eye of lean was small; the lean had an undesirable color and the fat was poorly distributed.

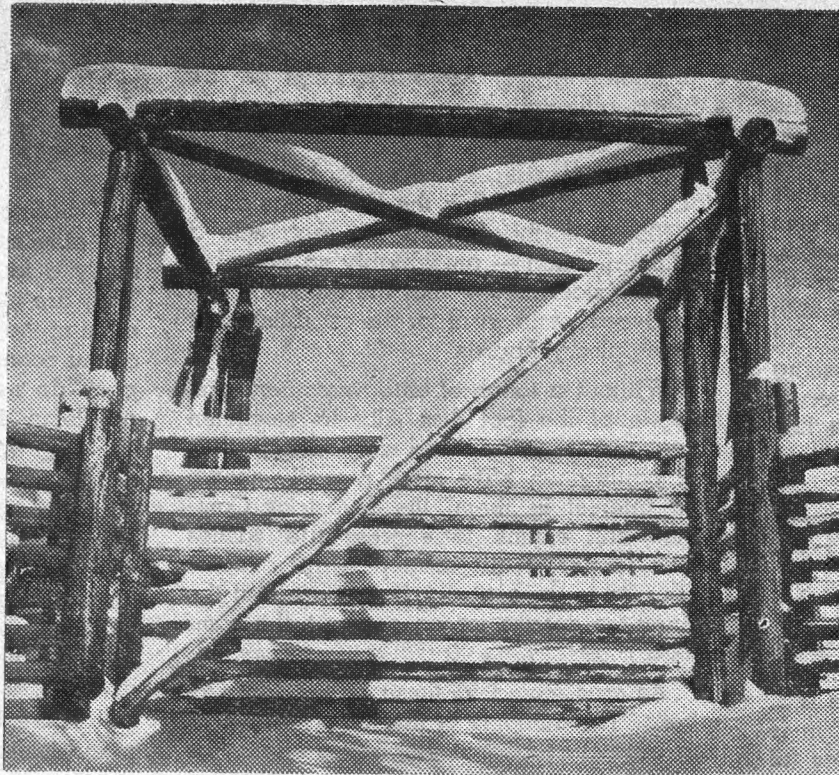
A few weeks ago, the Saskatoon Exhibition held its 19th annual Dressed Meat and Poultry Show, dedicated to a better appreciation of the real and basic values in meat animals. It all started during the Second World War. Having given up its exhibition stadium to the Department of National Defence, Saskatoon found it impossible to hold the annual Sheep and Swine Show. There was a determination to find some alternative contests which would prove useful to the livestock producers. The result was the first Dressed Meat and Poultry Show, conducted in a vacant building on the city's main avenue. There had been live and dressed poultry shows before that date but it was in December, 1940, that beef, pork and lamb carcasses became features.

Struck by the opportunity of making this an educational attraction for producers, middlemen and consumers alike, directors gave the most careful thought to rules and conditions and, significantly, the original plan has been followed with little change through the intervening 19 years.

Contestants in the classes for beef, pork and lamb were instructed to deliver their entries alive at the Union Stock Yards, three days prior to the show. Each animal, as received at the stock yards, was weighed and identified by tattoo or metal tag and given individual pen accommodation to ensure against fighting and bruising.

At this point, interested stockmen had opportunity to compare the entries while still on foot and speculate how distinctive characteristics like high tail-heads, long necks and thick thighs would show up in the carcasses. Some stock-yard arguments and a few friendly bets added to the general enthusiasm.

From their stock-yard pens the meat animals were taken to a nearby slaughtering plant and dressed with the greatest of abattoir care. Carcasses went from the killing floor to cooler



Bert Smith, Royalties, Alta.

“TIER ON TIER, THE SNOW LAY.”

Saskatoon spotlight on carcasses

by GRANT MacEWAN

and, after hanging for 24 hours, were transferred to the downtown show quarters and displayed for judges and then the public.

At that first show there were 25 carcasses of pork, six beef, 12 lambs and 406 entries of dressed chicken, turkeys, ducks and geese. And both rural and urban people turned out in large numbers to find common interests and proclaim the merits of a show bearing upon every-day problems in selling and buying meat foods.

As noted in the first year, one of the best features of the show was the opportunity for study by stock growers who saw the animals prior to slaughter and were now able to relate carcass quality and utility with the original type characteristics.

“Remember the critter?” a breeder would ask; “he was slack behind the shoulders and you can still see it — sort of flat about the fore-ribs.” Or, “this was the big steer with the brand; we said he was over-finished. Well, dang it, he is. There's no doubt about it now — and that muscle in his back is too small. The butchers won't be crazy to get that one. Now look at the next one; I remember him; he's still as smooth as an apple, and lots of muscle meat too.”

The recent Dressed Meat and Poultry Show held in the Massey-Ferguson Building in Saskatoon, conformed closely to the pattern created by the first one, but with bigger and more impressive carcass contests—21 entries in the class for beef carcasses, 37 pork carcasses, 43

lamb carcasses and 249 entries of dressed poultry.

The grand championship for beef carcasses was won by Raymond Sjolín of Kinistino, and it qualified for the Saskatchewan Hereford Association special award. Topping the long line of lamb carcasses was an entry from Saskatoon's veteran breeder and exhibitor of pure-bred sheep, James Whitehead. The championship for pork carcasses was taken by W. H. Roth, of Rosthern, and for dressed turkeys by Mrs. S. Sutherland, of Saskatoon.

With striking frequency the names of Saskatchewan's pure herd breeders appeared among the contestants and most of them were there to mingle with packers, retail meat merchants and consumers in studying the results.

And on the concluding day of the show, all exhibits were sold, the dressed poultry by tender and the carcass meats by public auction. Prices for poultry were six to nine cents a pound above prevailing market quotations and premiums on meat carcasses varied more widely. With Bob Shepherdson, of Perdue, as auctioneer, beef carcasses sold at prices averaging 46½ cents a pound and lambs, 44 cents. These figures represented two or three cents above market on that day but the champion beef brought 70 cents a pound. For the champion lamb carcass, the livestock commission firm of Weiller & Williams paid \$1.00 a pound and donated it to the Children's Shelter.

Following the plan adopted at Saskatoon's first Dressed Meat Show, a meat cutting demon-

stration was included and members of the Canadian Association of Consumers were invited to attend. With meat experts, Bob Wheeler and Peter Chubak, from Canada Safeway Stores handling the demonstration, visitors saw beef, veal and lamb carcasses reduced to retail cuts and learned why some joints are more tender, more flavorful or more economical than others.

The cheaper cuts, it was emphasized, are not only most economical as sources of the nutritionally important proteins, but they can be especially tasty. The fact is that the tougher muscles are usually richer in flavor than the highly-regarded cuts commanding the highest prices. Retail prices tend to follow tenderness and loin cuts commonly sold as steaks are always higher than chuck roasts which are at least equal in food value. Consumers, it was pointed out, can obtain a maximum of protein for a dollar from the forequarter cuts — and if properly prepared, these can be exceedingly palatable.

The demonstrating experts discussed government grading of beef, a service identifying quality, and explained that meat inspection has quite a different purpose, ensuring that none but meats from healthy animals will enter into wholesale and retail trades. The small, circular stamp carrying the words “Canada Approved” is the buyer's guarantee of safe and wholesome meat.

Still another subject under discussion was ripening or aging of meats — a matter of holding suitable pieces under carefully controlled refrigeration for one, two or three weeks to achieve added tenderness and palatability. None but well fattened beef is suitable for the ripening process.

And so, once again, the Saskatoon Dressed Meat and Poultry Show demonstrated clearly the broad field in which producer, packer, retailer and consumer interests meet. It's better that all who are connected with the industry understand.



Get the Feel of the Road

Test road conditions right away. As soon as you start out (but away from other cars or hazards) try your brakes to find out how slippery the road surface is.

4-H Delegates from all Provinces



Junior 4-H Club Council, comprising two club leaders and one delegate from each province, get together. Delegates were selected to officiate at various functions during the 27th National 4-H Club Week in Toronto, in November. Seated Left to Right — Joan Aikins, Ontario; Karen Christensen, Saskatchewan; Ruby Trask, Newfoundland; Elaine Hosking, Nova Scotia; Kay Armstrong, British Columbia; Mrs. Donna Young, Supervisor of girl's work, New Brunswick.

Standing Left to Right — Elmer Hynes, Prince Edward Island; Kenneth McKenzie, Manitoba; Gordon Church, Alberta; Donald Parker, Quebec; Beverley Folkins, New Brunswick; J. Frank Muirhead, Supervisor of 4-H Clubs, Manitoba.

THE saying, "leading a dog's life," must have originated down east for we seem to be always reading of weird and unpleasant dog experiences there. The latest is about a Regina dog, Flip, who accompanied his owner on a trip to Montreal. First he suffered loss of face by being checked like a common piece of luggage (through regulations) in a hotel checkroom. Later thugs pinched a rented car in which his master had left him for a few minutes and Flip ended up in the middle of a gun-fight between the thieves and the police. Flip's agitation over the flying bullets became too much for the gunmen so they dumped him on the outskirts of town. After wandering, lost, for 24 hours he was lucky enough to recognize the hotel checkroom attendant on the street and followed her home. She got in touch with Flip's owner and at last report everybody was living happily — but in Regina, not Montreal.

FOG in the air makes for dangerous driving conditions, but fog in the head can be just as fatal.

SOMEBODY is always taking the joy out of life. Now it is a California doctor who, speaking to a Chest Specialists' (not in Hollywood) convention warned that space planners must consider the possibility that new and dreadful diseases may be lying in wait for us on the Moon.

THE Russians have opened a school of atheism at Ashkhabad in Turkistan. The course consists of 60 lectures and is entitled: *Marxism — Leninism — Religion and ways of over-coming it*. Graduates will probably receive the degree: *Doctor of Obliquity*.

YOU can lead a child to books, but you can't make it think.

EVEN Rudyard Kipling took a hand at making observations on gardening, for he wrote many years ago:

Gardens were not made
By saying, "Oh, how beautiful!"
And sitting in the shade.

A little wheat— —a little chaff

by IVAN HELMER

A WHIZ, bang and crackle fire in Chicago has just sent 600 large bags of popcorn popping in a warehouse where it was stored by a popcorn specialty company. No mention is made in the report of how many kids attended the do.

ECONOMISTS don't seem to ring the bell any oftener than the weathermen. A newspaper cutting, clipped in the dreary days of last winter, and staring out of the mess of junk on this desk boldly proclaims: *U.S. RECESSION WILL END BY JULY — '59, maybe?*

ONE of the headaches of employers nowadays is the task of drilling into employees heads the fact that equipment costs money and should not be abused. Judging from this, Ontario news item doctors, as workmen, are no exception: "A committee inquiring into the case of a district man, in whose abdomen a pair of forceps was found, urged that stricter regulations be adopted by hospital operating rooms to prevent such incidents."

PEOPLE sometimes get carried away by their work. Some delegates at a conference on the problems of alcoholism at Vienna were apparently carried away from it. A Hungarian paper claims that the delegates, when the conference was over, were far from sober. "Although the delegates have not yet solved the problem of alcoholism," it says, "they certainly solved the problem of emptying a great many bottles."

A PENNSYLVANIA faith-healer ran an ad: There is no problem I cannot solve; but he couldn't live up to his boast. Police stuck him the first day on how he could raise \$1,000.00 bail.

MAN may be on the way out — and not from nuclear monsters. A Dutch scientist says that it may be possible for a woman to have babies without male assistance. The tooth-carp can do it, and if a poor fish can, why not a lady? All that is required is a certain infection which can possibly be supplied by a pill. And all the children thus conceived would be females who would only give birth to more females. So you can see that the useless male, under this set-up, would have a very dim future indeed. Somehow we can't get upset about this prophecy. A pill can't be abused. It can't be got money from. It can't be loved, or enjoyed or languished over. And besides we are certain that a great many women just don't care for pills.

FOOD for thought: A British speaker, Darsie Gillie, on a BBC broadcast said: "To make every man his own judge of the universe produces happy results only if he can be persuaded to include Himself in his critical review of the world, and that does not often happen."

SOME of our male readers may want to read the following Detroit news item aloud some evening just before going to market: "A heavy section of brickwork toppled from the seventh floor of a downtown store, yesterday, seriously injuring a lady window shopper on the sidewalk below."

AND here is a seasonal warning to husbands: Last year a northern Alberta woman had to have her husband removed from the Christmas dinner table to the hospital. She allegedly ran a carving knife three inches into his side. Why? Because he criticized her while she was carving the Christmas turkey.

AND speaking of cars:
My teen-ager says, in a tone of distress,
That I don't understand his position.
It seems that the key to his social success
Is the same one that fits the ignition.
—Hal Chadwick in *Saturday Evening Post*.

PART of a poem by McLandburgh Wilson goes:
Twixt the optimist and the pessimist,
The difference is droll:
The optimist sees the doughnut,
But the pessimist sees the hole.

LONDON oyster eaters are being entertained as much by the can as the oysters shipped from Japan. The label on one brand reads: "Can be served hot or cold with lemon perhaps. Packed with diligence and responsibility in Japan. It is assuredly advised that all who delight will happily engage in serving these most sincere oysters." British gourmets say, so far so good, but how are they to tell an insincere oyster?"

THE best laid plans, as Bobbie Burns said, can run amuck... In Chesterfield, England, two police cars put on a safe-driving show before 8,000 people and sure enough they piled into each other head-on. The cars were a mess, but the drivers escaped with only badly wounded dignities.

A BACHELOR is a man who would sooner rearrange his affairs than furniture.

A BRITISH lady lecturer said in one of her talks: "We are taught, or learn, that you can't tell a book by its cover, but I bet we don't all learn it as emphatically as a young man I heard of, who took a book out of the library, called 'How to Hug' and when that evening he settled down to polish up his technique discovered he'd taken home the fifth volume of an encyclopedia."

THOUSANDS of women never lie about their age — they just ignore queries about it.

On freezing fowl

IN preparing birds for freezing make sure of cleanliness — your hands, your equipment and the chicken. Remove any pin-feathers, wash chicken in cold water and dry with a clean towel. Storage in the freezer for more than a few days calls for durable, moisture-vapor resistant wrapping such as plastic coated or laminated freezer paper or heavy aluminum foil.

You can freeze whole birds, halves or serving pieces.

Best potatoes

A FAIR way of judging potatoes is by their cooking quality. And on this basis, competing against Canadian growers from across the Dominion, M. A. Valli & Son, of Brooks, were awarded first prize for their entry at the Toronto Royal Winter Fair.

More honors for Calgary Stampede

HIGH HONORS have again come to the Calgary Exhibition and Stampede through the medium of the International Association of Fairs and Expositions.

At the annual meeting of the Association held at Chicago, Maurice E. Hartnett, Gen. Mgr. of the Stampede board was unanimously elected president—the first man from Western Canada in 20 years to hold this office, and the Exhibition and Stampede was also awarded the Breeder's Gazette trophy for making the biggest contribution to general exhibition livestock development, and the all-round presentation of Canada's biggest outdoor event.

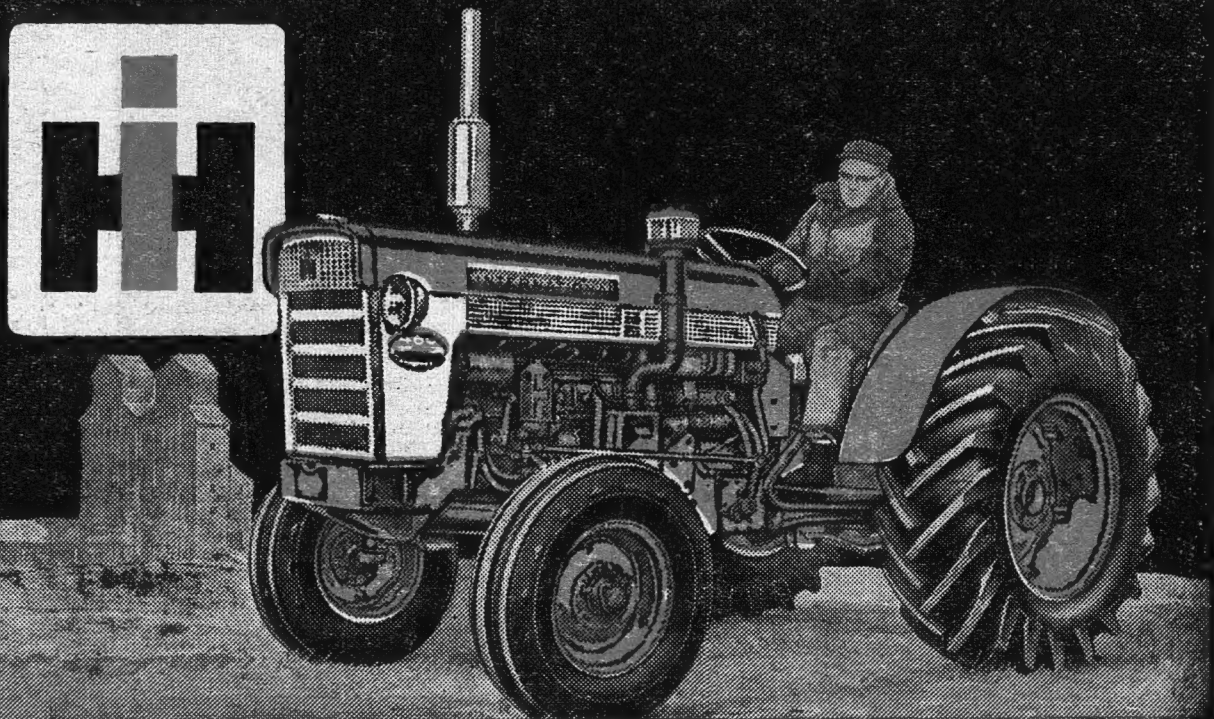
The Calgary delegation to the Chicago meetings brought back the fine trophy in triumph. It is one of the most coveted awards at the annual convention of the international group, which represents nearly 250 major exhibitions in Canada and the United States.

It was pointed out by Samuel R. Guard, publisher of the Breeder's Gazette, who made the presentation, that the Calgary Exhibition and Stampede pioneered international livestock shows at summer exhibitions and more livestock such as purebred cattle, horses, sheep and swine, Thoroughbred horses, and rodeo livestock was used at Calgary than any other exhibition anywhere else in the world.

Mr. Hartnett said that considerable interest was manifest at the meeting by other exhibitions in the continued success of the Exhibition and Stampede. While other exhibitions were reporting decreased attendance at evening grandstand performances, Calgary was still playing to capacity, and this situation has been a continued source of wonderment to many other fair managers in Canada and the United States.

NEW POWER

3 S-M-O-O-T-H



BIG! INTERNATIONAL 460 WHEATLAND

DIESEL OR GAS

POWER
 •Belt hp..... 52.43
 •Drawbar hp..... 48.16

ENGINE
 No. of cylinders.... 6
 Clutch size..... 10.5 in.

SPEEDS

MPH	Reg.	TA*
First.....	2.0	1.3
Second.....	4.2	2.9
Third.....	5.7	3.9
Fourth.....	8.1	5.5
Fifth.....	17.9	12.1
Reverse.....	2.5	1.7

TRANSMISSION
 IH Torque Amplifier

FUEL TANK CAP. 19 gals.

HEIGHT TO TOP OF STEERING WHEEL 62 in.

WEIGHT LBS.
 Gasoline model..... 4,410
 Diesel model..... 4,519

HYDRAULIC SYSTEM
 1, 2 & 3 Hydra-Touch
 Valves
 GPM (U.S.)..... 12

IH FEATURES AVAILABLE
 Independent PTO
 Power Steering

Buy **NOW** and get the IH

EARLY TRADER'S BONUS DEAL!

5 BIG BENEFITS

- You'll get a better deal on your trade-in by trading early...
- You'll receive interest at 6% on your trade-in, payable at once...
- You'll earn interest at 6% on cash payments, payable at once...
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POWERLINE FOR '59

From the World's finest engineering comes more of everything you want in farm power! Never before has there been, nowhere else will you find, a tractor line as complete, as new, or offering the tremendous value of the new Internationals. In every member of the IH line, from famous Cub to gigantic new 660, you'll find unquestioned leadership. Today as for over 50 years, the performance and value of International Harvester-built tractors are the standards of the entire industry.

for the BIG WEST!

COST-CUTTING SIXES!



BIGGER!

INTERNATIONAL 560

DIESEL OR GAS

POWER		
*Belt hp.....	60	
*Drawbar hp.....	54	
ENGINE		
No. of cylinders.....	6	
Clutch size.....	12 in.	
HEIGHT TO TOP OF STEERING WHEEL.....		70.6 in.
WEIGHT LBS.		
Gasoline model.....	5,800	
Diesel model.....	5,980	
HYDRAULIC SYSTEM		
1, 2 & 3 Hydra-Touch		
Valves		
GPM (U.S.).....		12 or 17
IH FEATURES AVAILABLE		
Torque Amplifier		
Independent PTO		
Power Steering*		
FUEL TANK CAP.		27½ gals.
SPEEDS		
First.....	Reg. 2.11	TA* 1.42
Second.....	3.73	2.52
Third.....	5.23	3.53
Fourth.....	7.27	4.90
Fifth.....	16.19	10.93
Reverse.....	2.74	1.85

BIGGEST!

INTERNATIONAL 660

DIESEL OR GAS

POWER		
*Belt hp.....	75	
*Drawbar hp.....	68	
ENGINE		
No. of cylinders.....	6	
Clutch size.....	12 in.	
HEIGHT TO TOP OF STEERING WHEEL.....		74 in.
WEIGHT LBS.		
Gasoline model.....	7,250	
Diesel Model.....	7,430	
HYDRAULIC SYSTEM		
1, 2 & 3 Hydra-Touch		
Valves		
GPM (U.S.).....		12 or 17
IH FEATURES AVAILABLE		
Torque Amplifier		
Independent PTO		
Power Steering*		
FUEL TANK CAP.		33 gals.
SPEEDS		
First.....	Reg. 2.15	TA* 1.45
Second.....	3.81	2.57
Third.....	5.33	3.60
Fourth.....	7.41	5.00
Fifth.....	16.51	11.14
Reverse.....	2.80	1.89

*Estimated

35-837

THE INTERNATIONAL 460 WHEATLAND, THE 560 AND THE 660 ALL HAVE THESE:

New IH Multi-Range 6 cylinder engines—the greatest advances in big-tractor power in 35 years! On every point—amount of power, smoothness, economy, efficiency, power flexibility—these new engines are beyond comparison with anything ever offered in any other tractor.

IH Torque Amplifier*—boosts pull-power up to 45% *on-the-go*—enables you to sail through tough spots or climb steep slopes *non-stop*—hold working depth when others must shift gears or stall.

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One of Alberta's well-known Hereford breeders, Mel Wood and his family, at Tofield, has been named one of the three Master Farm Families for 1958. The prize-winning family are (l. to r.): Donald, age 15; Mr. Wood, Mrs. Wood, and daughter Margaret, age 13.

Third Master Farm Family of 1958

THIS is the third, and the last article, honoring the three winners of the Master Farm Family Awards for Alberta. Previous articles featured the stories of the McCulloch family of Didsbury, and the Andrew Jespersion family of Stony Plain. This final article deals with the Mel Wood family of Tofield.

Mr. Wood was born in Tofield in 1904, the youngest boy of a family of twelve. His parents had moved to the area just before the turn of the century. He attended Lakeshore rural school, completing the eighth grade.

At the age of nineteen he became interested in boxing, and left home for a boxing career to supplement the family income. He fought during the winters in Tacoma and Seattle, returning to the farm for spring, summer and harvest seasons.

When his father died in 1928, the Master Farmer-to-be returned to the farm giving up his promising ring career.

Mr. Wood purchased his present farmsite from his father's estate and began building the present thriving stock farm.

In 1936 he married a teacher, Ethyl Baines. The Woods have two children: Donald, 15 years of age, and Margaret, 13 years.

Mr. Wood first became interested in stock raising in 1942. Up to that time he had farmed some 600 cultivated acres, putting in long hours of tedious labor. He purchased his first tractor in 1938. Horses still play an important part in Mr. Wood's farming practice, as his hilly country does not lend itself to complete mechanization.

The Wood's farm, 960 acres; 830 are under cultivation. A seven-year grass-grain rotation program is followed. 400 acres are seeded down to pasture and hay. Registered Thatcher wheat is grown on 100 acres and 300 acres are devoted to the growing of registered Rodney oats. One hundred acres is in summerfallow with 300 acres of forage and pasture. A windbreak takes up 30 acres.

The "Melwood Farm" has a herd of 171 pure-bred Herefords, built around two original females, purchased in 1942. Up to 1953, Mr. Wood used his time and profits in building up the herd. Each time he sold a bull, he purchased additional females.

His program has been more than worth while. One cow has raised twelve calves in eight years, one a bull which sold for \$8,000 in 1953.

The Master Farmer now plans to close the herd, breeding within, and following, the developed blood lines. Wood stock have been consistent winners at sales in Alberta.

Tamworth hogs are also raised on the prize-winning farm, and 200 Leghorn laying hens are kept. Six cows annually raise about 100 good quality hogs, marketed when they reach 200 pounds in weight. Approximately 800 dozen eggs are sold each year. Six Holstein milch cows provide the family with their milk needs.

The fully modern "Melwood" farm enjoys hi-line electricity. There are 28 buildings on the farmstead, including the modern seven-room home.

Mr. Wood has been very active in community affairs. He has been a member of the Tofield Chamber of Commerce and Community League, and was the first president of the Tofield Cattle Breeders' Association. He was president of the Blackfoot Grazing Association for five years and is a member of numerous Hereford breeders' associations, and the Western Stock Growers' Association. He was among those instrumental in bringing rural electrification to his district.

A firm believer in 4-H activi-

ties, the Master Farmer is a member of the adult 4-H committee.

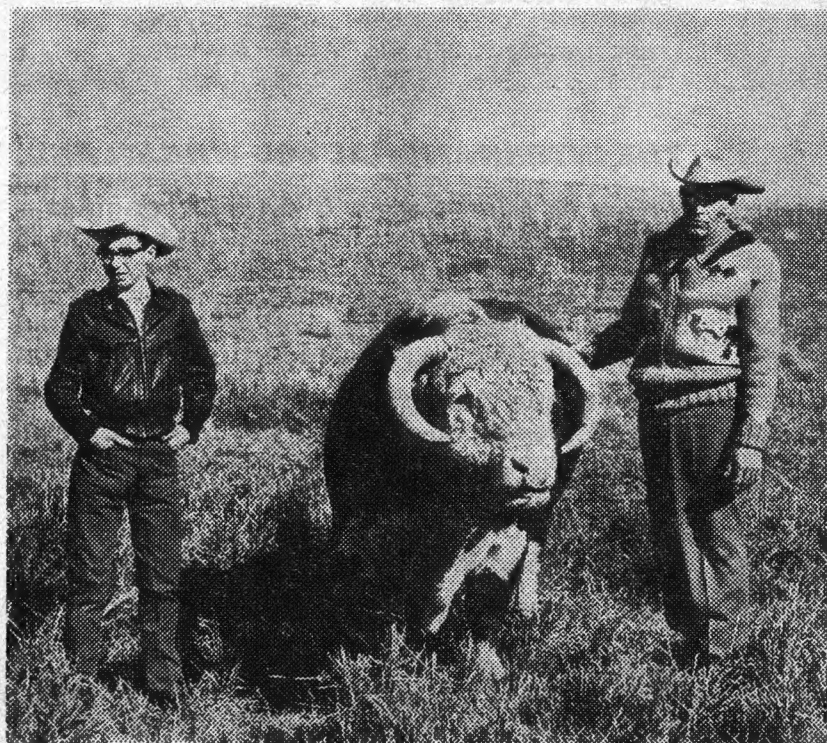
Mrs. Wood, who arrived in Canada at the age of four from England, also takes an active part in community affairs. She chose the teaching profession and taught for eleven years prior to her marriage.

Mrs. Wood is president of the United Church Women's Association and has been a Sunday School teacher for many years. She served three years as chairman for the local school board. She is also an active worker during Canadian Red Cross and Cancer Society fund-raising campaigns. During the Second World War she was secretary of the War Workers' Association.

Both children stand high in scholastic affairs and take a keen interest in 4-H work. Donald is president of the 4-H Swine Club, and vice-president of the 4-H beef club. Margaret is a first-year member of the Beef Club. The enterprising young farmerette last year showed the Reserve Champion in the beef club, and won the showmanship award in the Hereford class at the spring sale in Edmonton.

Mr. Wood's farm management policies are respected by many farmers throughout Alberta. He is also becoming known for his work in soil conservation.

His practices are favorably displayed on two quarter-sections of land, abandoned by other farmers as being worthless. The area is very rolling and previously subject to erosion but now boasts a fine stand of Alfalfa and brome grass. In order that it can be utilized more economically, Mr. Wood broke up other portions of the two quarters with a disc plow, thus leaving the organic matter on top of the ground to provide a good start in grain, then for-



Mr. Wood and Son, Donald, stand with one of the bulls of his pure-bred Hereford stock. The Melwood Farms herd was built up from an original purchase of two cows in 1942.



One close look at the clean and spacious farmstead of the Mel Wood family shows why their farm practices have won them the Master Farm Family award. Despite the fact that there are 22 well-grouped buildings on the site, it is clean and uncluttered.

age. The rotation of five years to grain and seven years to grass is such as to maintain the land in grass as long as possible. A weed problem has never developed due to the forage rotation plan.

Mr. Wood firmly believes there is good future for young people in agriculture. The key to success is hard work and the appli-

cation of scientific farming methods. He believes that young people should gain as much knowledge about agriculture as possible, through work in the 4-H movement, and further advanced study.

Armed with knowledge and the will to work hard a young farmer can readily achieve success, the Master Farmer states.

Check your variety

THE choice of the right variety of forage crops may make the difference between an average and an exceptional farm operation. The development of forage crop varieties is quite a slow and costly process, and for this reason the number of improved varieties are limited at this time. The farmer must govern his choice of what is available by careful consideration of his needs. Here is a list of varieties prepared by the Lethbridge Experimental Farm weekly letter:

ALFALFA—

Grimm—High yielding, winter hardy variety but very susceptible to bacterial wilt. Should be used where alfalfa will not be kept down longer than three years.

Ladak—Also high yielding and about equal to Grimm in hardiness; more drought resistant and has some resistance to bacterial wilt. It produces a good yield for about four years.

Vernal—About equal to Grimm and Ladak in hardiness and has considerable resistance to bacterial wilt. Recommended where alfalfa is left down for long periods.

Rambler—New creeping-rooted for seeding with grass as a pasture alfalfa . . . particularly in non-irrigated areas because of its drought resistance.

SWEET CLOVER—

Arctic—White blossomed, tall growing, drought resistant and high yielding.

Alpha—White blossomed, fine stemmed, drought resistant, and recommended where the harvesting of tall-growing sweet clover is a problem.

Brandon Dwarf—Very similar to Alpha both in appearance and growth habit.

Erector—Yellow blossomed,

tall growing, and drought-resistant variety. Not as tall as Arctic but a big improvement over the low-growing types of yellow sweet clover.

RED CLOVER

Lasalle—One of the three improved varieties, and is grown mainly in southern Alberta as a seed crop.

CRESTED WHEATGRASS

Fairway—Fine stemmed, drought-resistant grass, particularly suitable for turf purposes.

Summit—Coarse, tall growing, drought resistant selection, high yielding for both hay and pasture.

Nordan—Equal to Summit in yield of hay and pasture, and slightly higher in seed yield. Suggested as a seed crop.

TIMOTHY

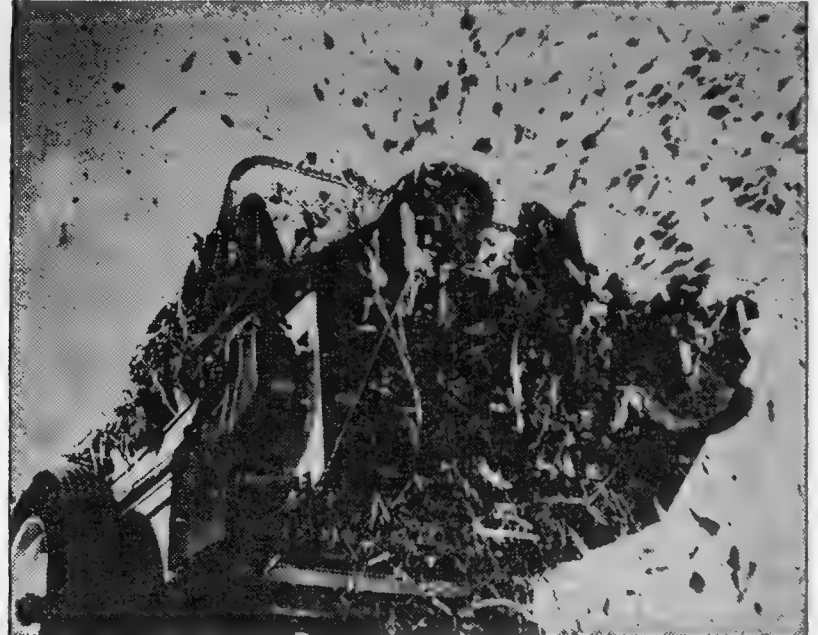
Climax—This variety was developed for the eastern market, and is grown in the west largely as a seed crop.



Winterize your car, your driving technique and your attitude. Accept the fact that normal speeds are often too fast for winter conditions. Whenever weather is bad, slow down.

Make this your year...

Trade up to NEW IDEA power spreading



NEW IDEA Power Spreading costs you less than automatic transmission for your car

Now, shift to power spreading with a NEW IDEA.

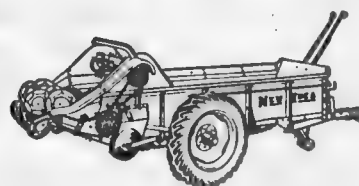
NEW IDEA PTO spreaders, with their big tires, let you spread in wet, icy weather . . . on soft, slippery fields . . . over hilly terrain. Built to spread efficiently every day of the year.

You handle bigger loads. You save yourself time and labor. With NEW IDEA you have five spreading rates for each forward tractor speed plus throw-out clutch for easy cleanout and pile unloading . . . all controlled from your tractor seat.

Which power spreader is best for you? NEW IDEA offers the big 95-bu. PTO spreader for average farms . . . the giant 125-bu. PTO spreader with forage box sides available, for large feeder and dairy operations. Famous NEW IDEA ground-driven spreaders available with 70-bu., 75-bu., or 95-bu. capacity. You can buy any NEW IDEA spreader with new or used tires. Best and most complete line of spreaders on the market today. Full year guarantee on every one.

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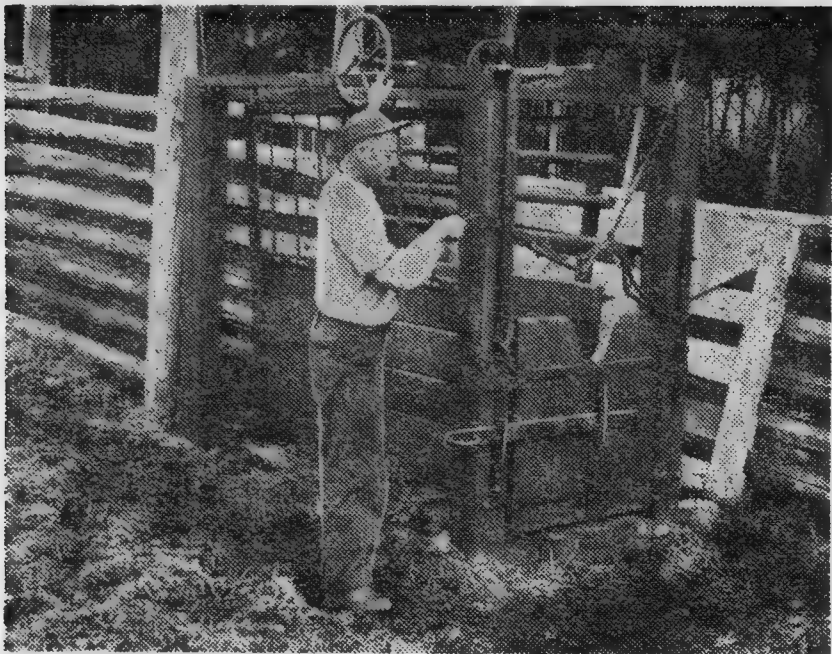
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Ronnie Gingrass' own design for a squeeze box permits easy branding, washing for warbles, or any other jobs requiring tight confinement for stock.

"Pioneering" A Family Farm

Careful planning and hard work—in that order has turned a family farm into a profitable, pleasant unit

IF "luck is preparation, and hard work meeting opportunity," then J. R. (Ronnie) Gingrass is one of the luckiest farmers around Meadow Lake, the tree-covered end of settlement in Northwest Saskatchewan.

So successful has been his brand of "luck" on his farm, that the Saskatchewan Department of Information points it out as a showplace of what can be done by young people with a yen for hard work and good management. In the past twelve years Ronnie and his wife Agnes met the problems of rising costs, grain quotas and floods and parlayed a meagre \$2,800 in savings and veterans' credits into a section of virgin soil, a full line of equipment and buildings, 91 well-bred Shorthorns and a labor-saving feedlot. They are also raising six young children.

Capitalizing on Provincial Lands Branch policies, the Gingrass' leased an economic-sized farm in the form of a half section of crown land. Their lease was for 33 years with an option to buy in ten, and payment of 1/7 of the annual crop. This left the bulk of their capital free for operations instead of being tied up in land payments. They later leased another two quarters, and are now buying the 585 acres plus another 160 acres under a haying lease.

Yet the main reason for the farm's success is still sound planning and hard work. Every job is done exactly when it should be, and nothing is wasted. For example, Ronnie never leaves his land in summerfallow all season; if summerfallowed in spring, he sows a cover crop in mid-summer, and has feed to

harvest by fall. Although not done on the Southern plains, the extra rainfall at Meadow Lake makes it practical there, and the high yields indicate that there is adequate savings in soil moisture and weed control.

Phil Polischuk, the Supervisor of Field Services for the Lands Branch, says that Ronnie's not just farming by doing the same thing over and over. He's thinking on every job, figuring out how to do it better.

Gradually selecting and culling, the farm is building up a good herd of Shorthorn stock, but in the meantime the early farm development is being largely paid for by bumper grain crops. He has sold some dozen steers and poorer cows yearly up until the present year when he marketed as many as 20 head.

Ronnie gets big yields on his cultivated acreage by timely tillage, fertilizing and working grass into his rotation. He estimates wheat has averaged about 40 bushels per acre the past ten years. At present there are 65 acres in wheat, 85 in barley, 60 in oats, 60 in green feed and 80 acres in tame hay. 70 acres of grass were sown this year with a cover crop. Next year-old stands of tame hay will be plowed under around mid-July, after they have produced one feed crop. Ronnie says that a complete fallow is only necessary about every seven years.

All the tame hay and green feed, along with native pasture keeps the 91 Shorthorns fat and prosperous. The stock is rotated from the bush pasture to the tame alfalfa-brome and back to give the grass a chance to recover.

The cultivated grass at Meadow Lake is a double boon . . . it both provides feed and increases yields. Ronnie says his alfalfa-brome mixture has hiked yields as high as 18 bushels per acre. On new breaking he gets 40 to 45 bushels of wheat, but with wheat after grass this yield soars to 50 to 63 bushels per acre.

"Grey-bush soils around Meadow Lake are not too fibrous," Ronnie says, "and they lack nitrogen. Grass-legume mixes add fibre and give the land a good shot of nitrogen."

All barnyard manure is spread on the fields and a further dose of nitrogen is given by fertilizing wheat and barley with 30 pounds of 11-48-0; oats with 40 pounds 16-20-0.

Ronnie has great faith in grass to help control weeds. He has little wild oats, and with spraying, broad-leaved weeds aren't much of a problem. He

big enough for 100 head, contained two open-faced sheds, a cattle squeeze and a heated water tank filled from a shed-covered well. Worth several thousand dollars, Ronnie spent around \$700 building it.

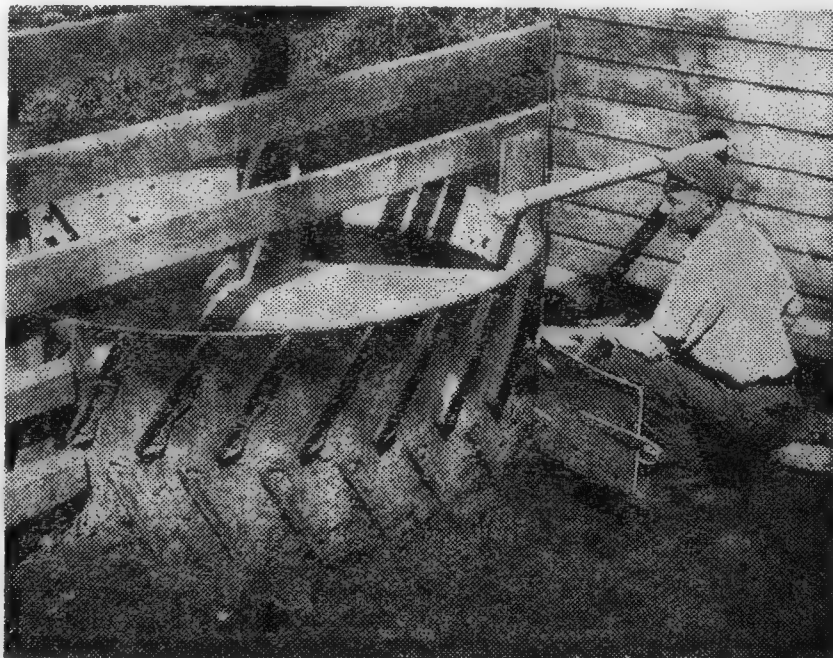
There are two sheds; one 36 by 30 feet for calves and one 55 by 30 feet for cows and older stock. The poles and posts for the corral were all cut from local bush with an axe. The farm-treated posts were sunk into the ground during the summer and spruce rails make up the sheds' framework. The roofing was done in winter when more time was available. Walls are three feet thick with straw packed between the rail frameworks.

The pole roof has a straw covering of only six inches, which holds snow and keeps out winter wet and blows away in the spring before it is able to start wood rotting. A heavier straw roof would cause the wood to rot.

The smartest and most original piece of equipment in the feedlot is the home-made, heated water tank. The tank is actually the huge iron wheel rim off an old steam tractor which has been set in a concrete base. Inside the tank is a home-made jacket heater with the stove opening in the wheel rim. Taking the chill off the water in winter adds pounds to beef cattle since much of their energy is devoted to keeping warm in winter. The wood fuel costs no money, since it is a by-product of Ronnie's sawing operations.

Ronnie's design for a squeeze box permits the side bars to be dropped individually, or all together, which permits a small job like branding or a larger job like washing for warbles when close confinement is not so necessary.

The feedlot is carefully designed for a minimum amount of effort in feeding grain, hay or salt-mineral mixes to the separate herds of calves and older



A huge iron wheel rim off an old steam tractor has been home-converted into an efficient heated water-tank. Taking the chill off the water in winter adds pounds to cattle that would otherwise use energy to warm it up themselves.



Ninety-one well-bred Shorthorns and a labor-saving feed-lot have established the Gingrass family firmly in the cattle end of farming. Careful selection and culling is gradually building up the herd.

stock. A special calving barn, 12 by 16 feet, cuts losses of newborn calves, and makes things easier for cows, calf and Ronnie alike. The sheds are at the top of a slight slope in the corral to help drainage.

Not a man for loading up on useless machinery, Ronnie states that he wants to be sure a new machine is going to pay for itself and not just sit in the yard. The first acreage cleared was tackled by a "cat" equipped with a brush cutter, but Ronnie later bought a two-three plow tractor and made \$1,000 the first season on custom breaking. "I did plowing, one-waying... any job that'd make a dollar," he says.

Despite the tremendous effort in building a thriving farming operation, Ronnie, with the help of his father, Charles, was able to find time to build an attractive six-room house, complete with running water, electric lights, a washer, vacuum cleaner, deep freeze, and a cesspool.

Besides housework, Agnes looks after the chickens and a large garden. Daughter of a prominent stockman, she has plenty of know-how, and is described by Meadow Lakes Ag. Rep. as "Ronnie's biggest asset."

Future farm plans may include more cattle and possibly

pigs. Grain quotas and the highest grain freight charge of any place in Saskatchewan, have caused Ronnie and Agnes to take a second look at the situation and consider the possibility of shipping their grain in the form of pork.

Whatever happens, the future looks bright for this young couple who provide the Information Department of Saskatchewan with a good example of young people who are still able to pioneer on a family farm.

Test damp seed

GERMINATION tests should be made on damp seed or seed that wintered in windrows in areas of Saskatchewan where rain and snow stopped harvesting, according to officials of the provincial agriculture department.

Damp seed may be in a dormant state, the officials say, and only germinate five to ten per cent. Dampness and cold may permanently have sapped seed of its vitality.

Good barley year

FOR the first time in several years the 1958 western barley crop was grown under almost complete disease-free conditions.



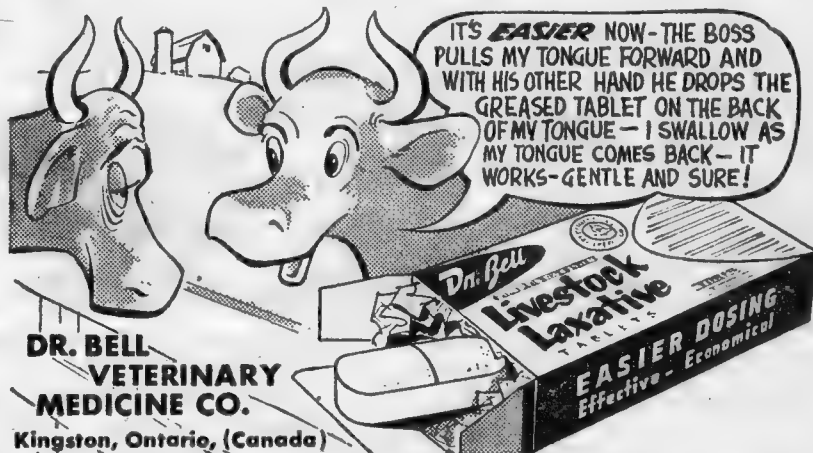
Agnes Gingrass rides herd on six healthy youngsters, and somehow finds time to look after the chickens, a garden and a six-room house.

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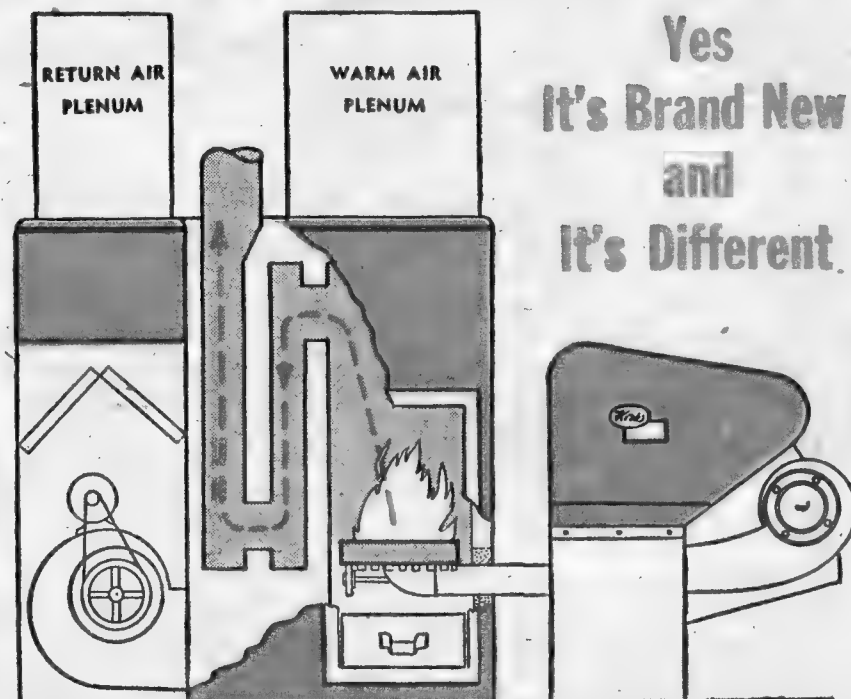
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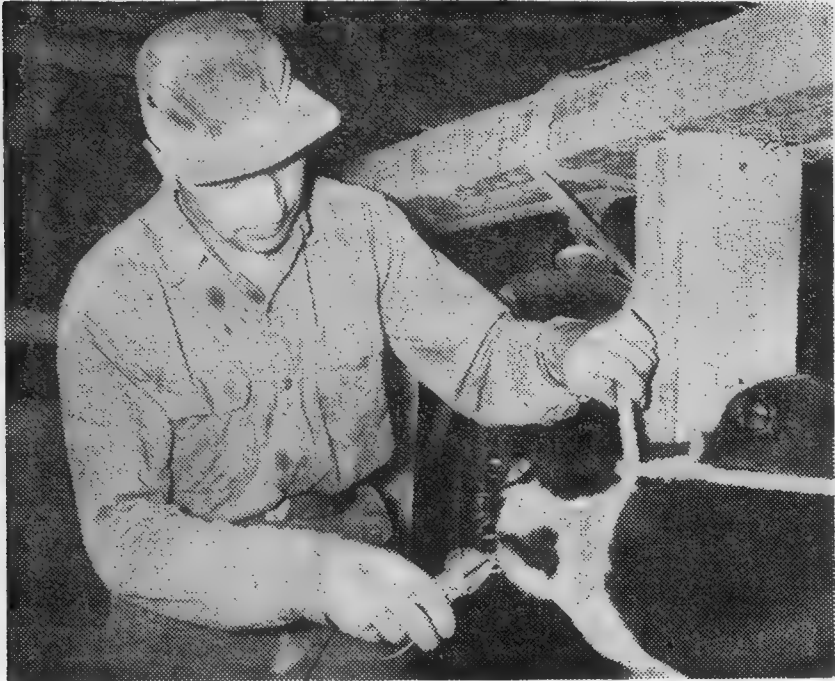
Direction from Town _____

A LONG with a bountiful grain harvest, one farmer we know reaped a bountiful harvest of porcupine quills this summer. First of all his cow came home with a nose resembling a pin-cushion. These were extracted easily enough when a rope on a double-wrap elevated her head, and a pair of pliers extracted the quills that had first been clipped with a sharp pair of scissors.

Picked Up In Passing—

by INA BRUNS

FARM homes are getting more attractive with each passing year, and as The Farm and Ranch Review has pointed out, some of the gate entrances are ingenious as well as beautiful. In a somewhat remote area, we happened across a farm with grounds so attractively planted and lawn so well groomed, we paused a moment in admiration. This farm boasts the most ori-



Porcupine quills in the nose are bad enough to treat, but when the victim is a high-lifed horse with quills in the back leg, what then?

It was the high-lifed horse with quills embedded in front end back legs that offered a thorny problem. After considering the use of chloroform to quiet the dangerous animal, a veterinarian advised spraying

the quills with vinegar every day. The quills dissolved, but the farmer is still wondering how he can get Rover to drink vinegar the next time he comes home with a throat full of quills from old cactus back.



Prettiest farm entrance we've come across in a long time: a pink farm house framed in this evergreen arch.

ginal gate entrance we have seen. It is an evergreen arch formed by growing trees, and it frames the pretty pink farm house in a way that nothing else could. All this farm family

would need to do to decorate the place up for Christmas would be to add a red satin bow to the top of the arch, and they'd have the most enchanting wreath in all Canada!



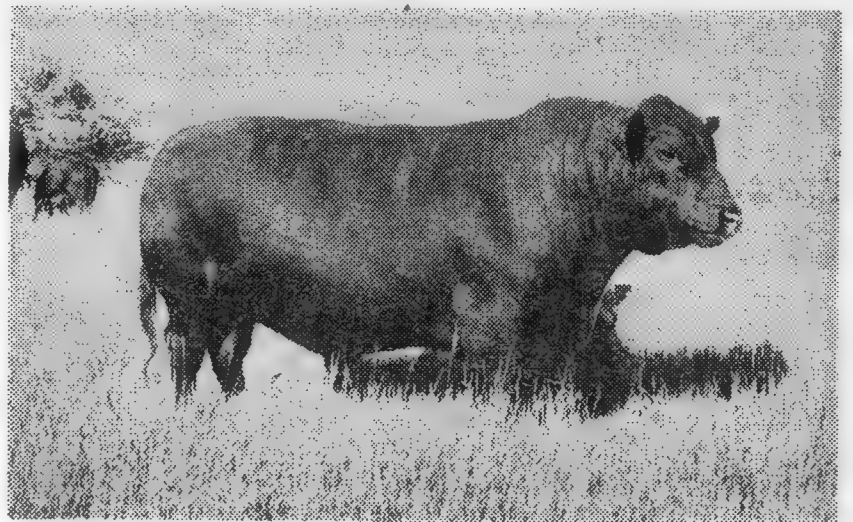
Farmers reaped a heavy harvest that included this 120-bushel-to-the-acre oat crop this year. Stockmen know that straw used as bedding can be valuable too.

"STRAW is the cheapest meat producer we know of," an outstanding stockman declares. "I don't mean that which is used as roughage necessarily, but straw used as bedding! Nature meant for animals to enjoy leafy beds; let them sleep on the frozen ground or the snow and you've got frustrated, fretful animals that won't stle down to the business of making meat.

Tests at the University of Saskatchewan back up this farmer's claim. Steers on tests made an additional \$13.21 each when kept well bedded — an extra gain of 0.6 lbs. a day!

WHEN nominations are taken for the meanest thief of the year, one central Alberta district insists their candidate will win without a fight. Their nominee removed 10 hogs ready for market from the farm of a bereaved young widow!

Owls, usually a farmer's best friend in the pest control department, also fell from the good graces of the district when a family of five cultivated appetites for chickens. One poultry yard alone lost over 100 chickens before the offenders paid the supreme penalty for their nefarious ways.



How old should a herd sire be before he is sent to the bologna mill? Breeders believe there will be more aging monarchs around in the future.

A TEN-YEAR-OLD bull that recently sold for well over \$2,000 made news, and after talking to a number of breeders on this subject of keeping older bulls, we've come to the conclusion that more and more great granddaddies of the herd will be around in the future. One pure-bred Angus man who paid something over \$1,000 for a nine-year-old monarch, put it this way:

"This constant changing to young, untried sires has been costing the cattlemen untold fortunes. There are so very few really top herd sires capable of passing along their desirable

qualities, some of us have come to realize we'd better hang on to a good thing when we find it. Sure, some of the experts say you get smaller calves from older bulls, but that hasn't been my experience.

A District Agriculturist agrees. "I especially advise a new breeder to buy a bull that has been around long enough to really prove his worth. One advantage in using a sire of advanced age is that a breeder knows exactly where his strength and weakness lies, and can allow for it in the future program."



How much does hay left in the field like this really offer? "Little", one man declares. "Enough to be responsible for a weak calf crop," says another. And, "No harm done," say others.

FOR some time now we've listened in on what we've come to think of as "the battle of the bales". In one corner of the ring we have those farmers who use balers that produce round bales that are frequently left in the field until cutting of a second crop makes their removal necessary.

"That's the beauty of having round bales," one cattleman de-

clared. "They shed the water. You can leave them during the rush season and bring them in when time allows. There's little or no nutritional loss."

Apparently, most men who own this type baler agree, for we saw hundreds of thousands of tons of good alfalfa blackening in the new growth as we travelled through Alberta and British Columbia.

In the other corner of the ring we have those men who produce oblong bales, or who are particular about stacking bales of any shape, not behind the balers.

"No one can convince me that bales laying out in the weather aren't being leached free of food value," another rancher de-

clares. "When their calves arrive in a weakened condition next spring, they'll blame it on the bull they are using and cart him off to the bologna mill. If they are using A.I., they'll swear off it for life. You can't expect cows to produce quality calves on poor quality feed. I can't get my bales up fast enough to suit me."

Improvement sought

HOW to retain or improve our share of Japanese barley imports is the purpose of studies under direction of Dr. S. A. Wells, Cereal Geneticist at the Lethbridge Farm. With around 40 million bushels yearly imported by Japan from Canada, Australia, and the United States, a steady share from Western Canada could add materially to our income.

More Scotch cattle

A CANADIAN breeder, Mr. Howard O. Rogerson, of Aldergrove, British Columbia, has ordered 50 Highland cattle heifers from the Scottish island of Islay to meet growing demands for this hardy, long-haired, long-horned breed in the United States and Western Canada.

This is Mr. Rogerson's third consignment of Highland cattle.

Aid to irrigation

IRRIGATION farmers may soon have an instrument that will tell them when to irrigate and how much water to apply. This instrument, known as an evaporimeter, provides a measure of the rate of water evaporation.

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Church With Its Coat Off

by C. FRANK STEELE

"THE Mormon Church is a church with its coat off."

This statement was made recently by a ranking official of the Latter Day Saints' Welfare Program during a check on farms, canneries and storehouses—properties of the Canadian region organization covering four stakes (diocese).

While statesmen around the world argue the pros and cons of the theory of World Food Banks, the Mormon Church is putting their own into practice.

An analysis of last year's project accomplishments combined with the plans for 1959 suggest that 1959 will set a new record in this church "food bank", set up to meet emergencies. In other words, if the Mormons can help it, they are not going to be caught short in this age of uncertainty.

Like Joseph, in Egypt, they are storing food against possible famine. And the unique security scheme launched back in the "Hungry Thirties" to help thousands of church members, out of work and in need, is a vast multi-million-dollar program today.

The key unit is the bishop's storehouse where surpluses of goods, mostly foodstuffs and emergency clothing, are kept ready to place in the homes of needy families. Welfare Stores, just like a regular corner grocery store, are maintained to distribute these stocks, but unlike your grocery or supermarket, you can't buy a pound of cheese or a can of tomatoes—without money. It's a store all right but the "customer" gets his goods on signed orders from his bishop. Hence the term "bishop's storehouse."

The Mormon Church, as you may gather, looks after its own, but its disaster help does not stop there. Primarily, it is for

worthy church members in need of help for any legitimate cause, but in any emergencies the Mormon Church Welfare is often among the first to offer and supply help.

It is all practical and realistic. The policy making leaders of the church, now numbering a million and a half members, roughly, in the world, foresee the time when the present era of plenty may be followed by want and hard times may strike suddenly. Even the possibility of nuclear war is not being ruled out of the church plans. "We're our brother's keeper" is the watchword of Church Welfare, and the church heads are calling upon their people in all parts of the world to have enough basic food products in their cellars or basements for at least one year. Thousands are following this counsel feeling there is "safety in counsel" when it comes from men looked upon as God inspired in their calling—the apostles, First Presidency, stake presidents and bishops.

The church is divided into Welfare Regions, and the broad program of production is so neatly planned that the goods raised and processed in one region can be exchanged for those of another. For instance, a region like Canada can best raise grain and meat, products that may be "swapped" for canned fruit from Utah, citrus fruit juices from Arizona or canned fish from Oregon or Washington. Church Welfare is far-reaching. It operates, entirely to meet human needs and not for profit, flour mills, shoe factories, cheese factories, canneries, livestock projects, sugar beet farms, boot and shoe factories and the now extensive Desert Industries plant in Salt Lake and a number of branches elsewhere, to provide work for the



A typical round-up scene that could be anywhere in Alberta's scenic foothills. However, this one is at the Cochrane Ranch, near Waterton Lakes Park, and run by the Mormon Church.

handicapped or unemployed. They get no wages, only orders on "Welfare" for what they need. There is a principle recognized here—the difference between one's needs and one's wants. Moreover, the recipient of aid is expected to contribute work if he is physically able. It is in no sense a dole.

The overall co-ordinating head of Welfare in Canada is Grant G. Woolley of Lethbridge, a stake president and manager of the Southern Alberta Co-operative Association. He is experienced in the co-operative business and long prominent in official church circles. He convenes the regional council made up of members from the Alberta stake centering in Cardston, Taylor stake of Raymond, Lethbridge stake of Lethbridge and the Calgary stake with its well stocked storehouse at the imposing new Stake Centre in Calgary. In charge of Welfare farms, operated on a ward basis, is A. E. Palmer, former superintendent of the Lethbridge Experimental Farm, and now retired.

Mr. Palmer's report, after an inspection of the farms, for the year tells of bumper crops in all

areas with grain, hay, sugar beets, cannery crops and the like abundant. Church canneries at Cardston, Taber and Raymond were busy and thousands of cans of peas, beans, corn and other products were processed and placed in storage to be drawn on as needed. Calgary stake leads the region in the size of farms—the one at Rosemary has long been operated as a two-section spread for feed crops, grain and cattle.

Then in Southern Alberta the Mormon Church operates three ranches—the Cochrane, west of Cardston; the Knight, south of Raymond, and the old K2 ranch at Spring Coulee. Presiding Bishop Joseph L. Wirthlin, of Salt Lake, has overall supervision of these operations and "Jim" Fordsham, of Cardston, is ranch manager.

The "Cowboy Bishop" as he is called by the ranch hands, makes a fall inspection of the ranches. On his last visit in late October, 3,000 calves were sold. These went to American buyers and were trucked from the ranches. Some 4,500 cows and 1,000 heifers and steers will be wintered on the ranches where feed is abundant—5,000 tons

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Cowboy rounding up horses on the Cochrane Ranch. The ranch is in typical Alberta foothill country and the mountains of Waterton National Park can be seen in the background.

of hay and 70,000 bushels of feed grains. Breeding stock from these ranches frequently go to Welfare projects that include cattle. However, the ranches are operated as straight business enterprises, revenue accruing going into the general budget of the church, much of these funds remaining in Canada to finance missions, new buildings, seminaries, the Cardston Temple and other activities.

Nothing but the best and most modern is the keynote of the Welfare Board. Not long ago in Kaysville, Utah, just

north of Salt Lake, Desert Mills and Elevators installed new equipment to handle the mixing of livestock feeds for Church Welfare projects. The mills always have a year's supply of all types of grains on hand and can mix the type of feed needed on short notice. In addition, a modern laboratory is in constant use analyzing and checking the various grains, flours and feeds. Feeds are fortified with all necessary ingredients to give balanced rations. In addition the big plant, with its massive concrete storage elevators, produces

the flour and cereal foods for the church-wide program.

Then at another Utah welfare centre, 600 enthusiastic church members, old and young, turned out for "Operation Spud Pik-Nik" when 200 tons of potatoes were picked, sacked and stored for distribution in this program to banish need. The ladies supplied dinner for the army of workers swarming over the fields. Similar scenes are enacted every fall on church farms in the Canadian region, a "Church with its coat off" indeed.

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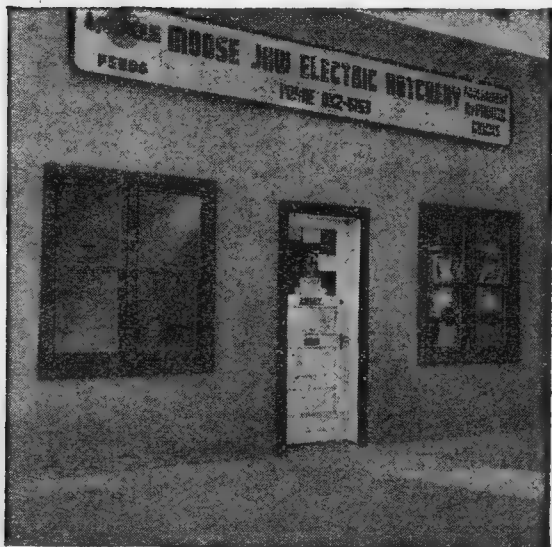


A 'Miracle' feeder for 8 years, Jim Luther, owner and manager of the Moose Jaw Electric Hatchery, has the highest hatchability record for chicks in the province of Saskatchewan for 1957 and 1958... 79.4% and 80.6% respectively.

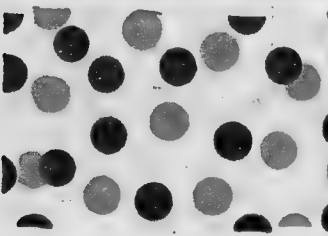
Of paramount importance to obtaining such high hatchability is the close supervision which Jim maintains over his breeder flocks. This plus high quality feeds and feeding methods.

Mr. & Mrs. James Luther, Moose Jaw, Sask. Mr. Luther is owner and manager of the Moose Jaw Electric Hatchery. Hatches chicks, turkeys and ducklings. Has a brooding capacity of approximately 30,000 chicks. All brooded chicks are fed 'Miracle' Chick Starter Crumbles.

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AN increasing awareness of the importance of applying business methods to running the farm is to be seen in a new trend on the prairies. Saskatchewan farmers, assisted by their agricultural representatives have already formed 23 farm management study groups and plan to organize 20 more.

Jacob Brown, agronomist and government farm management specialist at Regina, describes it as "an educational approach entirely on a voluntary basis." Club members are showing an eagerness to learn more about farm management advisory services, economic data, analytical techniques, and the application of farm management services to their own farms. They are also looking for more information on such subjects as income tax, business arrangements, estate planning and farm accounting.

The agricultural revolution has brought about a desire to learn more through group meetings, an appraisal of the effectiveness of the existing farm set-up, a desire to locate weak points and strong points within their farm organization and to find out where improvements may be made. Mr. Brown says that these answers can be provided only if the operator is will-

Self-Help Schools of Farm Business

Farmers and Agricultural Representatives put their heads together for a closer look at their farming enterprises

ing to keep a general farm record and have it analysed each year by farm economists.

Farm records are being used by farm management club members for other purposes too, such as filing income tax records, obtaining credit and settling farm estates. Records will provide an opportunity for the individual farmer to study his own farm and compare his record of farm operations with those of other farmers. This will be done by a provincial report. Efficiency measures will be used to examine each farm.

The farm management club may also form a nucleus for district activities relating to farm management improvement.

Given a favorable market and a favourable price structure, this approach should do much

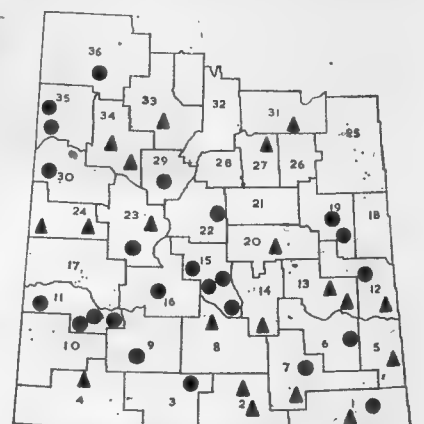
for family livelihood on the farm in terms of adequacy, stability and security.

A look at the accompanying map will indicate the response of farm families to the farm management club program. Twenty-three farm management clubs have been organized and twenty or more clubs are to be organized. Some of these clubs are young farmers' clubs who wish to study farm management. Club membership varies from 10 to 24 members. By 1959 well over 500 farm families are expected to be in the Saskatchewan farm management club program.

The way of life on a farm has assumed a new meaning and a new challenge. Rapid advance in technology and more mechanization is changing the

earlier pattern of agriculture, according to Mr. Brown. Today the farm unit has reached the full status of a complex business. It is no longer uncommon for the investment of an individual farm to be \$30,000 to \$50,000 or more. Some economists suggest that farm investment of these amounts are minimums for economic adequacy. Production costs are high and capital is limited on farms.

The farm family is now a part of the new commercialized agricultural pattern. "We must, therefore, seek, as farmers, the establishment of the most effective combination of resources. Basic economic business principles must now be reckoned with on the farm. The welfare of the farmer and his family are at stake," says Mr. Brown.



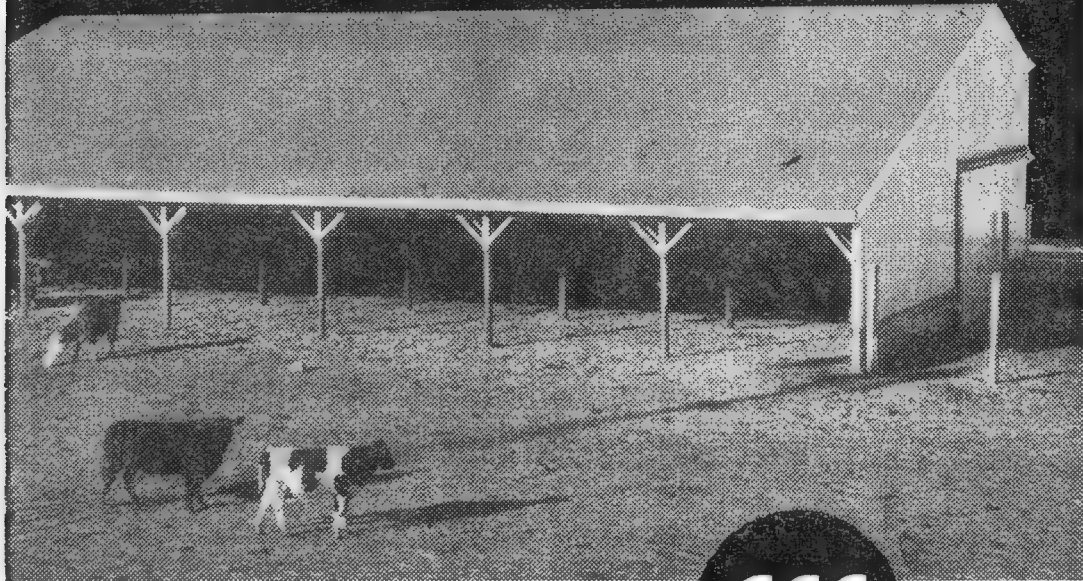
AG. REP. FARM MANAGEMENT CLUBS IN SASKATCHEWAN.

- Clubs organized 1957-58.
- ▲—Clubs proposed 1958-59.

To meet this development among farm people, the Saskatchewan Government in 1956-57 established a Farm Management Division within the Ag. Rep. Branch. Greater emphasis on farm management has been given to the overall agriculture extension program since this division was established. This emphasis has included more attention to farm management problems, rural short courses, an in-service training course for Ag. Reps. and the organization of farm management study clubs by a number of farm families. Three farm management specialists have been appointed to the farm management division to assist Ag. Reps. It is visualized, that a three or four-year program of five study sessions during winter months should familiarize farm operators in the clubs with farm procedures on analysing the farm business as well as the fundamentals of farm management.

Work in the field of farm management in other provinces of Canada and in the United States shows, said Mr. Brown, that no single large factor determines the profit or loss on an individual farm. Many factors influence profit or loss. It is important, therefore, to do as well as possible in each factor. Farmers are organizing formal farm management study groups to learn more about these things.

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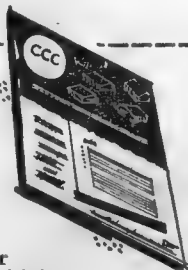


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CANADA allows only top quality apples to be exported to Britain. Last year Canada shipped 700,000 bushels to the U.K., valued at \$2,000,000.00.

THE value of mineral production in Alberta is the second highest of all the provinces.

THE city of Medicine Hat, Alberta, has gone for more than four years without a fatal automobile mishap — hardly an accident.

PROPER insulation and ventilation of poultry houses increases the good health of birds and egg quality.

AN abrupt change in feeding when weaning calves can cause trouble through added stress on the young animals.

THREE crops of hay, nearly 1,000 tons, were harvested this summer from 200 acres at Riverland Irrigated Farms, an experimental project on British Columbia bench lands, and it was expected that possibly a fourth crop would be obtained.

IN the fall of 1957 and the spring of 1958, over 20,000 trees were planted in solid stands on eroded farm lands northwest of Neepawa, Manitoba; for the most part on abandoned hilly land.

\$1.00's worth of 2-4-D is all that is necessary to wipe out sow thistles and dandelions on an acre of land, according to the Weyburn, Sask., district agriculturist.

DIRECTORS of the Alberta Cattle Breeders' Association have set the quota of entries for the 1959 spring bull show and sale, at Calgary, at 850 head: 600 Herefords, 140 Shorthorns, and 110 Aberdeen-Angus.

THE Vermilion, Alberta, Agricultural school has a 100% increase in students over last year, while the Olds school enrollment is up 15%.

THE University of Saskatchewan has been handed a gift this year of \$4,000.00 for research work on malting barley by the Brewing and Malting Research Institute of Winnipeg.

DIETICIANS warn that exposure to light will cause some potatoes to turn green, and these may be harmful if eaten. A half-inch peeling should be taken off potatoes showing green, and if the potato is bitter it should not be eaten.

ALTHOUGH further studies are needed, experts say that future poultry laying rations will likely contain less protein and result in considerable savings to poultry keepers.

AN undisturbed, or cultivated stubble will have 10 inches more moist soil than a disced one, likely the difference between a good and a fair crop in dry years, says the Saskatchewan Dept. of Agriculture.

DAVID K. MILLS is the owner of the highest producing Guernsey herd on the prairies. His herd averaged 7,740 lbs. of milk and 382 lbs. of butterfat in an average of 317 days.

RABIES are a potential threat in the United States to live stock, with the increase of cases among wild life (2,751) in 1957. A corresponding increase (703) has resulted among domestic animals.

J. R. STEVENS & SON, Didsbury, Alta., have been awarded the Silver and Seal Certificate for the Long-time Production of their Guernsey cow, Crescent Proud Lady.

CANADIANS use about 6½ pounds of cheese each per year, which is only about 1/3 of the cheese consumed by Europeans. Half of the cheese used in Canada is Cheddar cheese.

1958 was one of Western Canada's worst forest fire years. Up to the end of August 7,210 fires had burned over an area of nearly 5,000,000 acres. About 386,000 acres were destroyed by 5,000 fires in 1957.

A COMMERCIAL fertilizer combining nitrogen and phosphorous is superior to straight nitrogen fertilizer on brome pastures, according to the Lacombe Experimental Farm; and fall treatments are better than spring treatments.

WHEN the objectionable taste of stagnating water causes cattle to stop drinking enough, they may wind up with digestive trouble which could require treatment. This can be prevented by finding, if possible, another source of water.

THE number of teacher trainees enrolled in Manitoba has jumped to a record 780, an increase of 124 over last term's enrollment.

A ROOSTER crowing contest was held in Oregon with \$500.00 going to the owner of the rooster crowing the oftenest in a 30-minute period. No mention was made in the report of whether the contest was held at dawn, or otherwise.

EITHER the bees weren't hitting the ball this year, or conditions were not right for them. The Canadian honey crop is considerably down from last year's 32 million pounds.

BROOD sows at the University of Alberta, out on good pasture, weaned 7.1 pigs per sow farrowed, while a similar group on the same area of land with no pasture weaned only 3.6.

AT Brandon around 2,000 plots are grown each year for the purpose of testing new varieties and hybrids. At the Illustration Stations another 1,300 plots are used.

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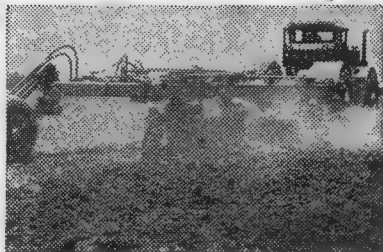
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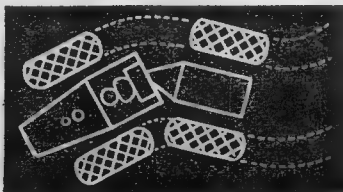
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Winter's Book

By Kerry Wood

THERE had been a new fall of snow during the night. A fresh page of winter's book, inscribed with self-written stories of wild creatures — and of man.

A car had parked at the sanctuary entrance. There were heavy marks of a man's overshoes, the narrow imprints of a lady's fashionable footgear as she carried a baby to put on a hand-sleigh. A boy and a dog had burst from a back door, racing each other into the woodlands. The man followed slowly, pulling the sled while his wife brought up the rear and did her best to step in her husband's large tracks.

Then a runner snagged on a snow hidden stump to tilt the sleigh, spilling its small passenger. Mother forgot about tracking her husband, rushing to snatch the baby from the snow. The man hurried back, helping

to dust snow off the infant. Did the baby cry? Probably! Because there had been a period of standing around, many tracks as man and woman conferred together. Then man carried baby while lady pulled the sleigh. Abrupt end of boy's gallop. Tracks of boy's slow return, with his dog still bounding around him. Return to the car, and away. Enough of deep snow and winter's book for Mom, Dad, and Baby. Perhaps Junior and Rover wanted more, but they had been over-ruled!

Beyond the boy's last track, the pathway was unmarked by man. Here a rabbit had hopped along it briefly, turning aside to halt under a rosebush. The upper twigs were red-spotted with rose hips, but within the bunny's reach the shrivelled fruits were all missing. Obviously, the rabbit had dined be-

fore hopping deeper into the forest.

I etched my own trail across an end of the lake, where buff-colored reeds were bent above the snow. Nearby a fox had left a neat, single-footed trail, foraging back and forth among hummocks of marsh grass. At times the animal's pointed nose poked downwards to sniff. Under the snow, mice had runways and homes. The fox wanted one for a snack. But while I trailed Reynard, he was not successful.

Pine grosbeaks called me from this spoor. Plump birds were clustered on wolf berries, feasting contentedly. One rosy-tinted male was warbling a charming melody; I wanted to get close to enjoy the song. But the wary grosbeaks flew, leaving a track-dotted berry grove behind.

Several other bird prints were seen. The chicken-like trail of a partridge, the bird wearing snow-shoe appendages that grouse grow on their toes every winter. Back tracking the partridge, a snow-hole was found where the bird had tunneled the previous twilight to get out of wind and cold. Pushing clear of its body-made igloo at morning, the grouse walked a hundred yards to the nearest spruce tree. Under the needles branches the snow was thin. That's where the partridge had scratched through to the fleshy green leaves of kinnikinnik, the mealy berries providing the bird with breakfast.

There were hop marks left by magpies, the spot where a bird as small as a chickadee had come a-ground for a few seconds, also chip and bark fragments under a stump where a woodpecker had bored for grubs. I saw shrew trails, snow-roofed tunnels arched up from the surface to tell of the passing of one of those small but ferocious hunters. More rabbit runs were found, some of these converging on a recently fallen poplar tree that was now stripped bare of its green bark. Trails of nervous squirrels were abundant in a spruce grove; also the tail-marked tracks of white-footed mice.

One doe deer's spoor was found, but not followed. The deer had been bounding along at full speed, so I back-trailed to look for the cause of its alarm.

Thus I was guided to a multi-tracked area alongside a saskatoon thicket. Two coyotes had been there. One had a freshly killed rabbit dangling from its jaws, leaving a unique snow-mark of its own. Number Two coyote wanted the rabbit. Number One growled "No!" Head to rump they circled. The rabbit-carrying coyote dropped its prize only once. During that interval, the animals clashed briefly. Then Number Two had side-stepped, which might have been a feint to rush forward and snatch up the dead bunny. But the marks showed that Number One had anticipated such a

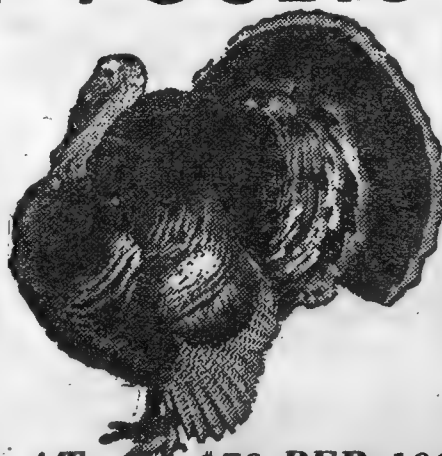
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move. It had whirled back from the fray, securing its victim again.

Another round of circling. Did Number Two have any right to a share of the rabbit? Sometimes a pair of coyotes will unite to hunt, one animal driving game downwind through a thicket while the other coyote lies in wait to pounce on any bunny that ventures near. Perhaps such a victim is hared by the hunters.

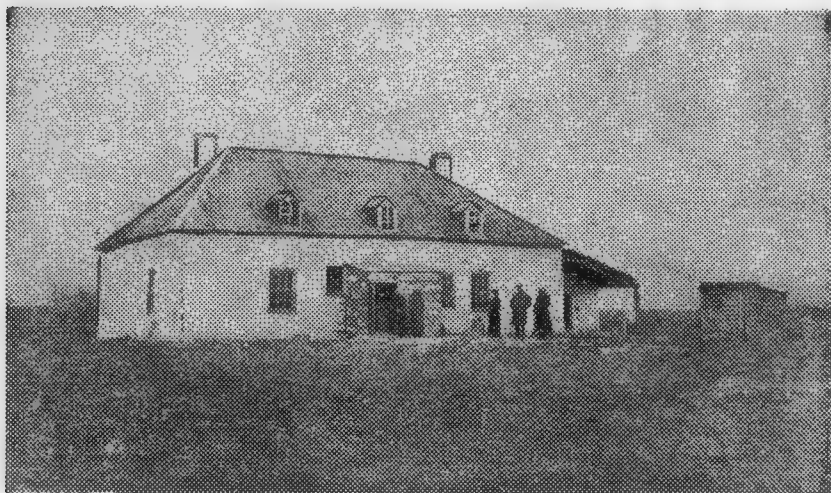
This time, back-trailing revealed that Number Two had come from the east, Number One from the north. There was a bloodied, trampled snow area

where it had killed the rabbit, near the bunny's sleeping-form. Then Number One, carrying the prize, had encountered the hungry, envious Number Two. Much circling; many growls! Finally Number One had moved off, stiff-legged and short-paced with rabbit still dangling, back to the north while Number Two had eventually gone westward.

The doe deer had undoubtedly heard the coyote's quarrel and decided it was a good time for a speedy exit to parts unknown. And after reading the snow-story, the twenty below zero temperature routed me home from winter's book.

The loss of Fort Pelly

by F. A. TWILLEY



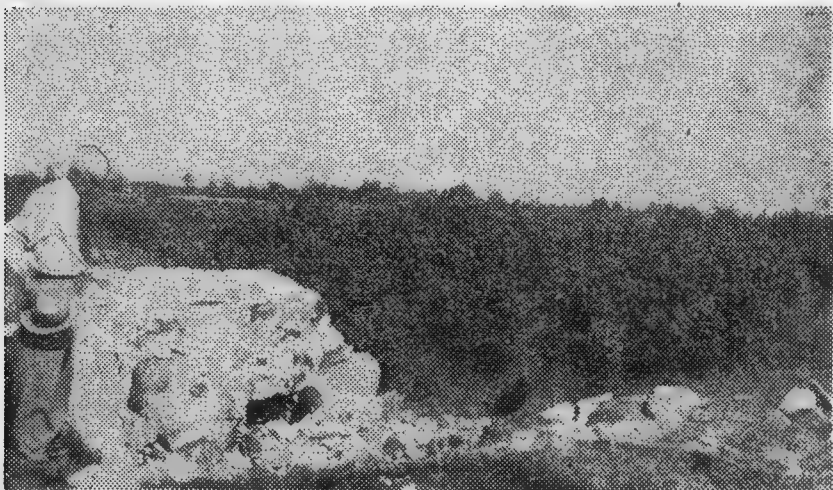
Once a thriving and impressive centre, surrounded by a high stockade of sharpened poles, the old Hudson's Bay Post of Fort Pelly was soon by-passed by the tide of progress and was abandoned soon after this photograph was taken in 1907.

IN the early part of the last century, with rival companies and free traders reaching out for the furs of the natives, many forts and trading posts sprang into being, some of a substantial nature and others of a part-time character. No less than twenty-five of them within a small radius around the sources of the Swan and Assiniboine rivers.

One of the most important of these, to be used for almost seventy-five years, was Fort

Pelly. Situated on the upper reaches of the Assiniboine, and belonging to the Hudson's Bay Co., it did a tremendous business, not only in furs, but in salt from the north brought down by dog team from Salt Lake and distributed to all points including the Red River settlement. In maple sugar, thousands of pounds of it, and in pemmican, acceptable equally as much as furs, for use by the Company's employees.

Trade goods from York Fac-



Little remains today to mark the site of old Fort Pelly which at one time was the hub of a thriving business in furs, salt, maple sugar, pemmican, and all the other necessities of pioneer life. It was in 1881 that the first big paddle steamer churned its way up the Assiniboine River to give the Fort a special importance.

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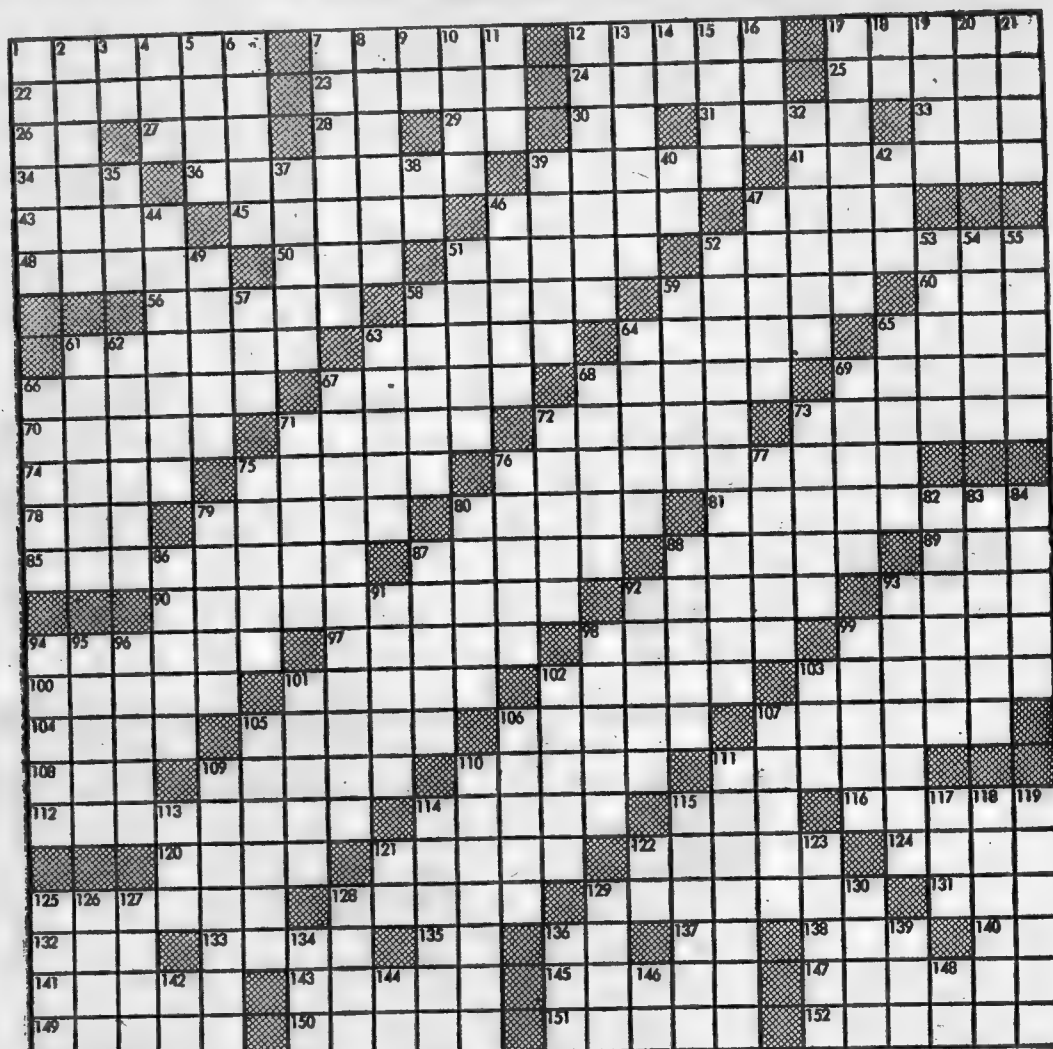
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Crossword Puzzle



- | | | | | | |
|------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|
| ACROSS | 66 Farm out at a rent | 106 Part of leg (pl.) | DOWN | 55 Covered inner surface of | 94 Measure of capacity of Italy |
| 1 Cask larger than a barrel | 67 Danger | 107 Sullenly | 1 False show | 57 Skill | 95 Constellation |
| 7 Tilled land | 68 Lures | 108 Cry of cow | 2 American lizard | 58 Cost of transportation (pl.) | 96 Dormouse |
| 12 Chews | 69 Cord | 109 To deprive of energy | 3 Half an em | 59 Sprightly in manner | 98 Complain in a feeble way |
| 17 Active | 70 Frighten | 110 Fatuous | 4 Decay | 61 Famous jockey | 99 Unit of electrical capacity |
| 22 Disregard willfully | 71 Walking sticks | 111 Sum | 5 Crustacean | 62 Schools | 101 Ritual prayer of Mohammedans |
| 23 Hinder | 72 Intelligence | 112 Battle-field in National Military Park, Maryland | 6 Weird | 63 Maiden who saves | 102 Cause to vibrate |
| 24 Greek letter | 73 Looked curiously | 114 Serpent | 7 Flatter servilely | Flying Dutchman from his fate | 103 Cooking vessel |
| 25 Depart | 74 Ache | 115 Insect | 8 State of rest | 64 Glide to music | 105 Obvious |
| 26 Thirteenth Greek letter | 75 Wheeled vehicles | 116 Darlings | 9 By | 65 Pleasing | 106 Trap |
| 27 Pitch | 76 Famous English jurist | 120 Allowance | 10 Disclaim | 66 Turkish money of account | 107 Important person |
| 28 Aloft | 77 Sea eagle | 121 Skeleton organization | 11 Macaw | 67 Blind adherence to a faction | 109 An amulet |
| 29 Symbol for sodium | 78 Mr. Claus | 122 Public meeting | 12 Large stone | 68 Pummels | 110 Early Americans |
| 30 News agency (abbr.) | 79 Child's blackboard | 124 Eating regimen | 13 Fence in | 69 Taut | 111 Large soup bowl (pl.) |
| 31 Spoken | 80 Bridge supported by framework (pl.) | 125 Exert oneself | 14 Symbol for tellurium | 71 Tilts | 113 Greenland eskimo |
| 33 Indian Memorial post | 81 English Pre-Raphaelite painter | 128 Girl's name | 15 The self (pl.) | 72 Incline | 114 Kind of fish |
| 34 Occupied a seat | 82 Reaches across | 129 Where King Arthur had his court | 16 Babylonian numeral | 73 Rhymsters | 115 Military plane |
| 36 Science of life | 83 Cook in certain way | 131 Girl's name | 17 Referred to a selenium | 75 Japanese sword | 117 Objective |
| 39 Closes violently | 84 Pronoun | 132 A people of Nigeria | 18 Symbol for selenium | 76 Bored | 118 Cause |
| 41 Wolfish | 85 Opposed to romanticist | 133 Unsorted wheat | 19 Cab | 77 Reality | 119 Guides |
| 43 Enough (archaic) | 86 Coin (pl.) | 134 Flour of India | 20 Man's name | 79 County seat in Alabama | 121 Symbol for calcium |
| 45 Rub out | 87 S. American rodent | 135 The ambary | 21 Network of nerves | 80 Large nail | 122 Musical syllable |
| 46 Long-handled spoon | 88 Sober in manner | 136 Cry of surprise | 22 Pear-shaped pot | 82 Formed mass of bread (pl.) | 123 Sheds feathers |
| 47 Impolite | 89 Inclined from the perpendicular (naut.) | 137 Exist | 23 Speak in public | 83 Repeated performance | 125 Sinks |
| 48 Narrow roads | 90 Anger | 138 Part of face | 38 Earth goddess | 84 Scorches | 126 Snare |
| 50 Consumed | 91 Partiality | 140 Direction | 39 Rescued | 86 Part in play | 127 Part in play |
| 51 Dike | 92 Place of combat | 141 Old lively dance | 40 Pronoun | 87 Frighten | 128 A Syrian monk |
| 52 Support of a statue | 93 Breathe loudly asleep | 143 Enoch | 42 Footlike part | 88 Line of juncture (pl.) | 129 Cut cabbage |
| 56 A freshet | 94 Pretenses | 144 Vibratory motion | 44 Type of motion picture | 91 Covert sarcasm | 130 To weary |
| 58 Elevation of bodily temperature | 95 Peelers | 149 Exhausted | 46 Even | 92 Long-legged bird | 134 Pitch |
| 59 Ilk | 96 Italian coin (pl.) | 150 Kind of biscuit (pl.) | 47 Spools | 93 Released on prisoner's honor | 136 Owns |
| 60 Fourth calf | 97 Early American political writer | 151 Fortune tellers | 49 Backbone | | 139 Through |
| 61 Garb | | 152 Old-world finches | 51 — and Clark, famous explorer | | 142 Preposition |
| 63 Pulled alternately on reins | | | 52 Certain Christians | | 144 550 (Rom. num.) |
| 64 Humorous | | | 53 Tropical hoofed mammal | | 146 Prefix: down |
| 65 Rotate | | | 54 Girl's name | | 148 Syllable of scale |

tory came to the fort up the rivers and along the well-beaten Pelly trail.

Early pictures of the fort show a high stockade of sharpened pole stakes all around the buildings with a look-out platform and a board walk around the top of the palings along which a kilted piper marched at break of day to herald the morn. We can imagine the effect on the Indians when hearing it for the first time.

Most everybody that was anybody in those stirring early times, Governors, Explorers, Generals, and a few lords and barons found shelter at various times under its hospitable roof.

Then, in the early seventies, what excitement as the men and horses of the newly-formed North West Mounted Police went trooping past on their way to their new quarters a few miles away. To hear of the establishment of the North-West Council close by and of connection being made to link up with the telegraph line and be in constant touch with the outside world.

To look at the Assiniboine today one could not imagine a big paddle-steamer getting very far up its winding course, but one memorable day, July 9th, 1881, the "Marquette", 125 feet long with a 30-foot beam, built by that pioneer in transportation and lumbering enterprises, Peter McArthur, its powerful engines puffing columns of smoke, electrified every living thing around Fort Pelly by arriving there. What breath-taking excitement!

As the tide of progress advanced westward, Fort Pelly lost its importance, but hung on precariously until the railway from Swan River to Regina went by in 1907, and gave the post its quietus. It was abandoned shortly after.

We say abandoned. Worse than that. No attempt was made to save any records or anything of interest for posterity. Blown in all directions by the four winds went papers that would prove so interesting to read today.

What has become of all the doors and windows and the very logs that were the substance of the well-built fort and its out-buildings? Not a sign to show that here stood a famous fort at which history was made.

For a few years the chimney stood up against the sky defiantly alone, but at last came tumbling down and now people travel past the place entirely unaware that anything was ever there. All that remains is a pile of stones and mortar.

A couple of young fellows found in the ditch close by, just a few months ago, what proved to be a press for baling furs; a very valuable piece of historical bric-a-brac.

How could such obliteration take place in so short a time? We are too near to the romantic past to fully realize its importance.

Be ready for soil drifting

WHEN the chinooks start to blow, snow cover does not last long, warns the Lethbridge Experimental Farm, and high winds can wreak havoc with our soil. Our experience last December and January, 1957-58, should remind us that winter can be a time of soil drifting and that we should be prepared to take immediate action if fields begin to drift.

This fall there were many fields that lacked sufficient trash cover to provide protection from the wind. This was particularly true on irrigated land. These bare fields should be watched closely so that emergency control measures can be undertaken at the first signs of drifting to avert widespread movement of soil from productive fields.

Emergency control measures are based on three principles.

The first is to provide a protective cover. Small focal points from which soil has drifted can be protected by spreading straw or manure over the area. This measure, if utilized in the early stages of drifting, can frequently prevent trouble over an entire field.

The second principle is to re-establish the cloddy structure of the surface soil. On frozen soils this can best be done with a heavy duty cultivator utilizing chisel points on shanks spaced at intervals of 2 to 3 feet. An alternative is to use a one-way disk with all but every fourth disk removed from the arbour bolt. Under non-frozen soil conditions the heavy duty cultivator or a similar implement may be used to roughen the soil and bring clods to the surface.

The third principle is to trap moving soil particles on the field. This is accomplished by listing the soil at right angles to the prevailing wind. Lister shovels spaced about 3 feet apart on a cultivator or the one-way lister can be used for this purpose. Listing is required on fields that are covered with dunes of drifted soil, or under other conditions where it is not possible to create a lumpy soil surface.

Experience has shown that soil drifting can be brought under control on any field by the adoption of one or more of the proven remedial measures. Clods or lumps of frozen soil are subject to continuous breakdown by weathering forces. We must inspect our fields periodically throughout the remainder of this winter and next spring and be prepared to take further action whenever necessary.

Milking contracts

LABOR shortages are leading some dairy farmers in Britain to have their cows milked under contract. They pay a fixed sum a gallon to have the cows milked, fed and looked after. The contractor supplies all the staff necessary and makes himself responsible for the health and feeding of the herd as well as the cleanliness of the milk.

For better legume seed crops

COMMUNITY planning would go far towards better legume seed crops. That is indicated from the pollination experiments by Dr. G. A. Hobbs, Forage Crop Insect Specialist at the Lethbridge Science Service Laboratory. Honey bees, bumble bees, and leaf-cutter bees are the chief pollinators of our legume crops and a knowledge of what these bees prefer is essential to profitable seed yields.

Fertilizer gives results

THE Manitoba response to fertilizer in 1958 crops was high as shown by the results from 32 field-scale tests on Illustration Station Farms supervised by the Experimental Farm, Brandon.

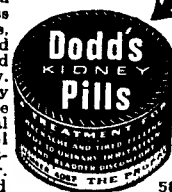
Wheat on summerfallow treated with ammonium phosphate (11-48-0) gave increases up to 12 bushels per acre at Katrime, and 6.6, 4.4 and 3.2 bushels at Beausejour, Goodlands and Durban. Barley, with the same treatment, showed an increase of 25 bushels at the Pas, and 17 bushels at Silverton. Similar results were obtained with oats. Ammonium phosphate (16-20-0) at 60 pounds to the acre gave percentage increases in yields of wheat, barley and oats on stubble, equal to those obtained with 11-48-0 on summerfallow.

New officers

ACCORDING to information supplied by Secretary G. M. Clemons, the annual election of directors of the Holstein-Friesian Association of Canada for the provinces other than Ontario has been completed by mail ballot. The successful Western candidates were as follows: Gordon McKay, Richmond, B.C.; Curtis Clark, Carstairs, Alberta; R. F. Haight, Saskatoon, Saskatchewan; Ted L. Townsend, Winnipeg, Manitoba.

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When kidneys fail to remove excess acids and wastes, backache, tired feeling, disturbed rest often follow. Dodd's Kidney Pills stimulate kidneys to normal duty. You feel better—sleep better, work better. You can depend on Dodd's. Get Dodd's at any drugstore.



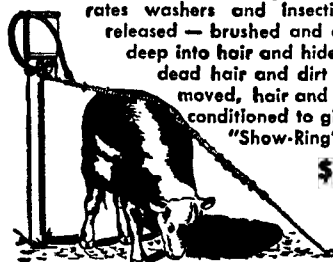
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Here's the Oiler designed for your specific purpose -- AT A PRICE ANY STOCKMAN CAN AFFORD.

"Sandhills" ALL-STEEL OILER

Recommended for feeder cattle, long-haired cattle, northern cattle, and for dry lot use. Steel cable-washer rubbing element built to last a lifetime. Cattle entering oiler lift rubbing element which actuates pump and a measured amount of insecticide flows down on cable from supply tank. Washers on the cable act as a seal to hold oil; animals rubbing action separates washers and insecticide is released — brushed and combed deep into hair and hide. Loose dead hair and dirt are removed, hair and hide is conditioned to give that "Show-Ring" finish. \$3950



"Sandhills" ROPE-WICK

Recommended for beef or dairy cattle, hogs, thin-skinned—short-haired animals, and for use in loafers-pens. Cattle entering Oiler lift rubbing element which actuates pump and a measured amount of insecticide flows down onto rope. Rope soaks up all the oil. Oil is released as cattle rub, applying insecticide to animals hair and hide. Giant size marine rope rubbing element is rot and wear resistant. Oiler NOW available with heavy-duty steel guard encased at right. Steel guard encasement adds "scratchability" priced extra at \$3.70 for single unit — \$7.25 double. \$2950 SINGLE UNIT \$3850 DOUBLE UNIT



Let Cattle Treat Themselves!

3 GREAT NEW OILERS AT NEW LOW PRICES

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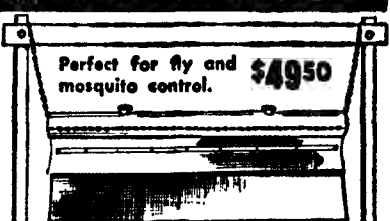
Best for open range and cattle on pasture. Treats two or three cattle at a time. 8-gallon cylinder is freely suspended by chain, and equipped with adjustable oil control. As cattle enter Oiler, they turn cylinder which permits regulated amount of insecticide to saturate canvas apron. Cattle rub against apron and receive an application of pest paralyzing insecticide. Unlike Sandhills Oiler, Stampede Oiler wipes film of oil base insecticide onto animals' hair... Cattle can't pressure against it... Can't tear it up.



Price per gallon \$12.60 postpaid

Recommended Insecticide Concentrate HESSKILL ROTOLEX

For best results at lower cost, mix Hesskill Rotolex with #2 fuel oil or petroleum distillate for use in cattle oilers. One gallon will take care of 50 to 100 cattle for several months... because it takes so little. Also mixes with water as a spray application. Safe for both dairy and beef cattle.



Perfect for fly and mosquito control. \$4950

Free Your Cattle of Costly Stock Pests!

ORDER TODAY Sandhills oilers are fully automatic. Equipped with Auto-delivery pump. (Guaranteed leak-proof and fully adjustable). Oiler mounts to post, anywhere. Complete unit includes 5 gal. tank with mounting head, automatic pump and oil system, rubbing element and anchor chain.

FREIGHT PREPAID when a gallon or more insecticide is ordered with each oiler.

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EXPORT "A"
FILTER TIP
CIGARETTES

The Lady OF THE HOUSE

Guest Contributor—Amelia M. Randle

JANUARY... WHITE SALES

JANUARY is a traditional month of sales, and after our splurge of shopping during December, it is just as well. The old wallet is nearly empty and everyone is looking for a bargain. However, all merchandise on sale is not always a bargain. Old or damaged stock is sometimes placed on sale and any "sale goods" should be carefully examined before buying to be certain you are obtaining good value for your money. Perhaps you are planning to stock up on towels and sheets during the annual "White Sales".

Tips When Buying Towels

1. Buy good quality towels if you want them to wear well. Choose towels with a firm, close weave and firm close loops. They will be more absorbent and will wear longer.
2. Choose towels with an eye to their purpose and use. Bath towels should be large, but towels to be used as hand towels in the bathroom or kitchen should be small. You don't want to have to wash a large towel that has been used only at one end.
3. Fancy weaves and patterns on towels increase the price of

the towel but not the serviceability. Choose color and design to harmonize with your bathroom colors.

4. White towels need laundering more often, but they can be bleached. On the other hand, dark colored towels do not soil as easily but should not be bleached.

— When Buying Sheets

In buying sheets, because of the large investment involved, careful selection is very important. There are two main types of sheets to choose from—muslin and percale.

Muslin is coarse to the touch, woven with thick yarn, heavy weight and a loose weave. Muslin is less expensive than percale and has good wearing qualities. This makes it a practical choice for the average home.

Percale is much softer, smooth, light in weight, and closely woven.

Good sheets, both muslin and percale, have a high thread count. That means they have a lot of threads per square inch.

1. Examine the weave closely to see that the lengthwise and crosswise threads are the same thickness, and that the weave is close and even.

2. Good sheets have a tape salvage which is heavier than the sheet itself. The salvage should be firm, strong, neat, and with no loose, untidy threads.

3. Hems on sheets should be straight and sewn with small, even stitches. Hemstitching is more expensive but not as durable as the ordinary stitched hem.

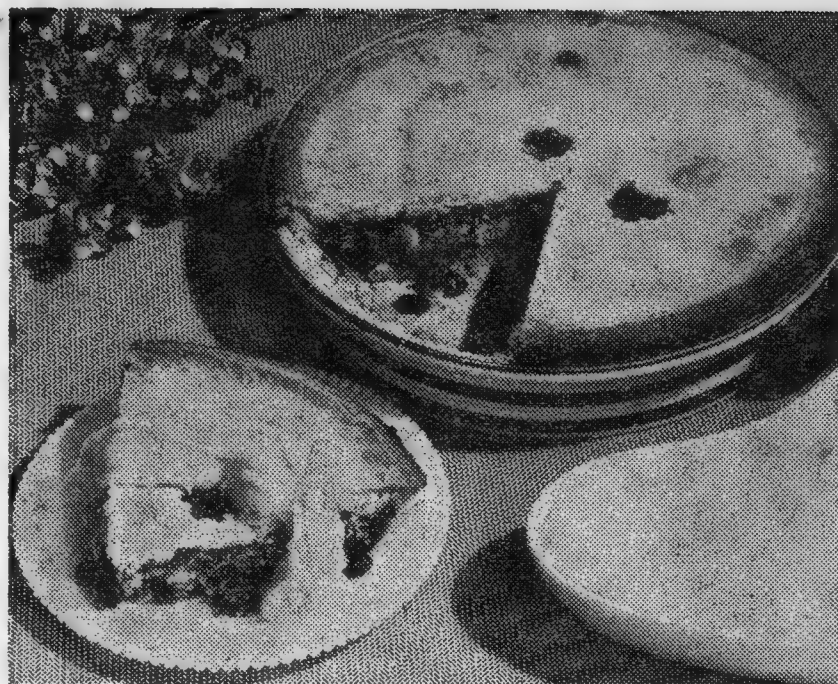
4. A small amount of sizing is used in sheets to keep the thread from breaking on the loom. Check sheets carefully as over-sizing indicates poor quality.

5. Make certain you buy the correct size for your bed.

NEW FOR... THE HOMEMAKER

★ Children's clothing in "wash and wear" fabrics is good news for mothers! These new fabrics require little or no ironing, are crease resistant, and fast drying. To get top performance from them follow the bang-tags laundering instructions carefully.

★ Silky-soft and luxurious-looking scatter rugs made of nylon are now available. They are, of course, completely washable and come in such beautiful colors.



Here's An Idea...

MINCE PIE WITH CHEESE TOPPING!

Christmas may be over, but the pie season isn't. Try this twist to your favorite recipe for mince pie. Follow this recipe for a nippy cheese topping. (It is wonderful on apple pie, too!)

NIPPY CHEESE TOPPING

- | | |
|--------------------------------------------|-----------------|
| 1 tablespoon butter | ¼ teaspoon salt |
| 1 tablespoon flour | 1/3 cup of milk |
| 1 cup grated sharp Canadian cheddar cheese | |

Melt butter in top of a double boiler. Blend in flour and salt. Add milk and cook until thick, stirring constantly. Add cheese and cook until cheese melts and blends into sauce. Serve warm over fresh mince pie. Yield: ¾ cup of topping.

Nice for bedrooms and bathrooms.

★ Texture is the big news in yarns and the newest look in nylon. Textured nylon yarns are being used in sweaters, socks, knitted dresses and even woven fabrics. There are many texturing processes, one of the most common is Ban-Lon.

★ A new vinyl plastic coated fabric is making its appearance on upholstered furniture. This fabric comes in many colors, is stretchable, can be cleaned with suds and water. If you are re-upholstering some furniture, or buying new furniture look for these fabrics.

★ Did you know that the famous "Empire" line in dress design was created by Napoleon's Josephine? Because Napoleon was of short stature, Josephine wore low-heeled shoes, but still wanting to give herself an illusion of height, she raised the waist-line to just below the bosom. The "Empire" silhouette has made a great comeback and is one of the more popular of the many new styles in women's clothing this season.

★ Next time you shop for laundry supplies, look for a new liquid cold water soap made especially to launder elastic girdles and bras. Any garment containing elastic should be washed with soaps rather than detergents.

★ Another new laundry aid is the fabric softener. These products are usually added to the

final rinse water and make any fabrics with a pile, such as Turkish towels, diapers, etc., very soft and fluffy.

YOUR TIME... IS VALUABLE

EVERY homemaker would like to have time to do something besides the routine household chores. Do you find that you do not have time to do the things you would like? Perhaps you have a hobby or a sport that you just can't find time for. Or maybe reading and self-improvement is your aim. Everyone usually finds themselves in this position at one time or another, but homemakers especially, because they are so willing to give up their time so that other members of the family can indulge in their pleasures.

Homemakers should try to analyse their working habits and find ways to cut down the time spent on household activities. Here are some tips to cut your housework down.

1. Plan your work. You will be amazed how much time you will save if you have a weekly plan for housework.

2. Enlist help from family members, after all they create a lot of the work, and it is good training to have them help with it.

3. Cancel all tasks you can.

4. Group the routine tasks for saving time and energy.

BETTER... BUYING GUIDE

- 1—Have a shopping list and budget and buy only what you really need.
- 2—Don't fall for premiums! Quite often the premiums are worthless and have upped the price of the original product.
- 3—Know the various forms of credit.
- 4—Shop personally rather than by phone.
- 5—Shop around. Don't buy large items without comparing prices at various stores.
- 6—Avoid bargains you don't need. Inspect "sale goods" carefully.
- 7—When buying clothing and furniture, read labels before buying so you'll know what care you will have to exercise in preserving the life of the article.
- 8—When shopping for goods in a supermarket, don't stay there too long; the longer you shop the more you will spend.
- 9—Don't shop when you are feeling downhearted; it is an expensive cure for the blues. Likewise if you are feeling too good you are apt to spend your money foolishly too.

5. Arrange equipment to save steps and motions.
6. Adjust the heights of working surfaces to permit good posture while working.
7. Keep equipment in good working condition.
8. Eliminate equipment which is not used often enough to justify the required storage space.
9. Work out simple methods and stick to them until they become habits.
10. Work at a rate of speed that is efficient but not hurried.
11. Include adequate rest periods in your schedule.
12. Serve simple, nutritious, easy-to-prepare meals.
13. Watch your health.
14. Keep up your enthusiasm for improvement.
15. Take safety precautions; sometimes "haste makes waste".

HOW YOUNG... ARE YOU?

MOST people want to stay young! And rightly so. Even though you can't halt the hands on the clock you can do a lot to keep yourself young in both body and spirit.

Check yourself on the following questions and if you answer "yes" count 5 points against yourself for each "yes". A score of 25 means you need to change your ways and do some work on the "inner you".

- 1—Do you make unkind remarks about people you don't like? (Why not think of their good points?)
- 2—Do you shun responsibilities and activities saying "leave it to the younger generation"? (Keeping on the go is stimulating).
- 3—Do you complain more than you used to? (You are thinking too much about yourself!)
- 4—Do you think the best years of your life are over? (Are you over 90?)
- 5—Have you grown careless about your appearance? (Remember, a man is as old as he feels, a woman is as old as she looks!)
- 6—Do you feel sorry for yourself when life is tough? (Experts tell us this is dynamite.)

- 7—Do you criticize young people a lot? (Remember what you were like when you were young!)
- 8—Have you bought a new hat during the past year? (If you haven't, you're not being good to your family and friends.)
- 9—Do you have fewer friends than you had a few years ago? (The older you get the more friends you need!)
- 10—Have you kept up the sports you learned when you were a youth? (Homemakers need exercise and relaxation other than housework!)

SHORT CUTS... TO BEAUTY

★ The latest hairdos feature head-bands. To anchor those tousled and nonchalant coiffeurs scan your sewing remnants for velvet ribbons, buttons, veils, and feathers, and make yourself a head-band.

★ Nail-biting is a serious problem to some teen-agers and homemakers. One way to cure this habit is to buy a manicure set and to keep it out in sight so that you use it every day. Wear nail polish and use cuticle cream or oil every day. A determined spirit is needed too!

★ The experts tell us that women over thirty tend to have dry skin. To keep that dewy bloom on your cheek, use the special dry-skin night creams and cleansing creams; also a good help are the new moisturising lotions.

★ When travelling or when just spending a day away from home — tuck into your purse along with your comb, compact, and lipstick a package of the new moist towelettes. These are great for freshening up and make your face feel clean and cool. Available at drug-stores.

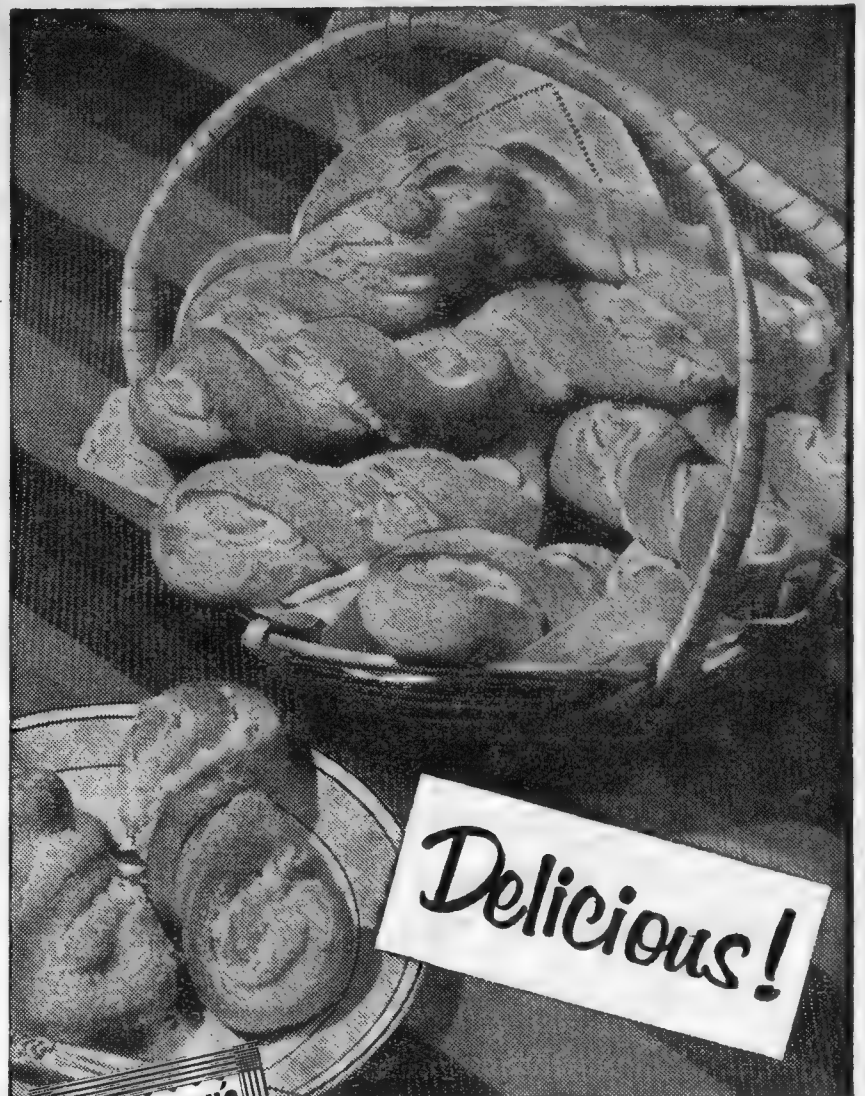
★ Now that we are in the season when we have colds — sometimes we can't shampoo our hair due to a bad cold. However, you can dry-clean your hair by wiping each tress with a cotton pad soaked in cologne or toilet water. You feel better and really smell nice too!

Prayer for The New Year...

Lord we thank Thee for the place
In which we dwell;
For the love that unites us;
For the peace accorded us this day;
or the hope with which we expect the morrow;
For the health, the work, the food,
And the bright skies that make our lives delightful;
For our friends in all parts of the earth.
Give us courage, gaiety, and the quiet mind.

Spare to us our friends, soften to us our enemies.
Bless us, if it may be, in all our innocent endeavors.
If it may, not, give us the strength
To encounter that which is to come,
That we may be brave in peril,
Constant in tribulation, temperate in wrath
And in all changes of fortune
And down to the gates of death,
Loyal and loving one to another.
—Amen.

Robert Louis Stevenson.



Serve warm, generously buttered... a delicious tea-time treat. If you bake at home there's never a failure when you use dependable Fleischmann's Active Dry Yeast!

NEEDS NO REFRIGERATION

ALMOND TWISTS

Measure into bowl

1 cup lukewarm water

Stir in

2 teaspoons granulated sugar

Sprinkle with contents of

2 envelopes Fleischmann's Active Dry Yeast

Let stand 10 minutes, THEN stir well.

Cream

1/3 cup butter or margarine

Blend in

1/2 cup granulated sugar

1 1/2 teaspoons salt

Blend in, part at a time

2 well-beaten eggs

Add the yeast mixture and

1 teaspoon vanilla

Stir in

2 cups once-sifted all-purpose flour and beat until smooth and elastic.

Work in an additional

2 1/4 cups (about) once-sifted all-purpose flour

Turn out on lightly-floured board; knead until smooth and elastic; place in greased bowl. Brush

top of dough with melted shortening. Cover. Let rise in warm place, free from draft, until doubled in bulk—about 1 hour.

Meantime prepare and combine

3/4 cup finely-crushed cracker crumbs

1/2 cup blanched almonds, finely-ground

3/4 cup granulated sugar

1 slightly-beaten egg

2 tablespoons water

1 1/2 teaspoons almond extract

Punch down dough. Turn out and halve the dough; set one portion aside to shape later. Roll one portion into a 12-inch square. Spread 3/4 of square with half the crumb mixture. Fold plain third of dough over crumb mixture, then fold remaining third over top—making 3 layers of dough and 2 of filling. Cut rectangle into 18 strips. Twist each strip twice; place on greased cookie sheet. Press 2 or 3 blanched almonds into filling of each twist. Brush with melted butter or margarine; sprinkle with sugar. Shape second portion of dough in same manner. Cover. Let rise until doubled in bulk—about 1 hour. Bake in moderate oven, 350°, 20 to 25 mins. Yield: 36 twists.

LUCKY WINNERS

Below are the Winners in the
**LAST—FARM and RANCH
REVIEW CONTEST**
**READ ABOUT THE NEW
CONTEST**
(On the Opposite Page)
STARTING TODAY!

First Prize — \$500.00

J. E. Marten, R.R. 1, Grand View, Manitoba

Second Prize — \$150.00

Alf Parkvold, Chagoness, Sask.

Third Prize — \$100.00

L. Olson, Galahad, Alta.

Fourth Prize — \$25.00

George Gray, 15006 - 102 Ave., Edmonton, Alta.

Fifth Prize — \$25.00

Miss M. A. Peterson, Box 121, Bashaw, Alta.

Sixth Prize — \$25.00

Fred Epp, Box 235, Carrot River, Sask.

Seventh Prize — \$25.00

Mrs. Einar Malmquist, Fort Vermilion, Alta.

Eighth Prize — \$25.00

Sam Dumo, West Bend, Sask.

Ninth Prize — \$25.00

Emil J. Petersen, Okanagan Falls, B.C.

Tenth Prize — \$25.00

Mrs. John F. Smith, Box 115, Fairview, Alta.

Eleventh Prize — \$25.00

Mrs. Louise Moine, Box 94, Val Marie, Sask.

Twelfth Prize — \$25.00

J. B. Jensen, Charlie Lake, B.C.

Thirteenth Prize — \$25.00

Mrs. John Klassen, Box 60, Poplar Point, Man.



The old-time store clerk was born too soon. It was never before midnight that the last dog was hung and the storekeeper given an excuse to draw the blinds and count the money in the till.

That Institution— the Country Store

by F. A. TWILLEY

IN these days of coffee breaks, early closing, long week ends, it makes an old-time store clerk realize that he was born fifty years too soon.

Working behind the counter in the winter after a summer of homestead duties, one put in long hours. The country store was, especially on a Saturday night, a kind of community hall and matters of local, even of national concern, were discussed and settled during sales.

It was never before midnight that the last dog was hung and the storekeeper given an excuse to draw the blinds and count the money in the till. Some of his customers, those living close to the village, did not contribute a great deal to the takings on this particular night, doing their buying during the week, and merely frequenting the store to see what was going on. Their usual practice was to reach in the convenient barrel of low-bush cranberries and secure a handful or commandeer an apple, and finally buy a plug of Macdonald's chewing tobacco at about five minutes to twelve, to square the account.

Good natured at all times a storekeeper had to be, no matter how tempted he was at times to blow his top. After all, he needed his customers as much or more than they needed him and he could not afford to lose them. That is, most of them.

When one fellow paid up his account after harvest one day, the boss handed him a cigar, a good one, all of ten cents. As the bill was around four hundred dollars, the farmer sniffed at the gift, and suggested that a measly ten-cent cigar was not much of a bonus for that amount of business. The storekeeper replied that it should be on the receiving end, having carried the man on the books all summer at

a certain risk that the harvest would not be as expected.

Butter and eggs were mostly the means of exchange in those days and these commodities were about as welcome as condescendence money at one time in history. When one chap, whose wife kept the home going in groceries with such, looking over the stock of sheepskin coats on the counter, flatly declared that he could buy one cheaper at the mail-order house, he was given the opportunity. The boss's son, a stalwart chap, hustled him along the length of the store, and, reaching the door, cast him into the cold and unfriendly night. No way to conduct a business surely, but he was back the next Saturday as was the butter and eggs.

We were somewhat mystified one fall when several bachelors, who always stocked up on Saturday night for the coming week, suddenly acquired a great liking for canned corn. Instead of the usual couple of cans, they each bought a whole case of it. It was not long before our stock was exhausted and an urgent order dispatched to the wholesalers for more. Just as soon as the boom began, or shortly after, the depression set in. It came out that a case of corn had been wrongly labelled and upon being opened the cans were found to contain delicious strawberries. You never know do you?

Well, now-a-days, if you are a woman, you push a wire carriage around a country store and pick up what you want, and some things you are not sure whether you do or not, but take them anyway if they are "specials". If you are a man, you keep out of the way and let the ladies do the shopping because you do not know where to find things and if you try, you only succeed in holding up the traffic.

NEW CONTEST STARTS TODAY!

YOU TOO! CAN WIN \$500
Or
One of the Many Other

Cash Prizes ranging from \$150.00 to \$25.00

IT COSTS YOU NOTHING

All you have to do to qualify is correctly answer the question at the bottom of this page, and mail it along with the \$1.00 payment and signature of a new subscriber living in Western Canada to the FARM AND RANCH REVIEW, Box 620, Calgary, Alta.

He in turn will receive in the mail a copy of the FARM AND RANCH REVIEW every month FOR THE NEXT TEN YEARS. THIS SPECIAL FARM RATE MAKES IT EASY TO GET ENTRIES.

All answers mailed to Box 620, Calgary, by the end of JUNE will be placed in a churn. Under the supervision of the Company's Auditors, the first correct answer drawn will receive the big cash prize of \$500.00. This will be followed by the drawing of 12 OTHER WINNERS.

Winners' names will be published in the FARM AND RANCH REVIEW and at the same time, the prize money will be promptly mailed.

REMEMBER . . . You cannot qualify by sending in your own subscription. Your entry will be disqualified if you send in a "gift" subscription or sign the order form for the subscriber.

— ENTER OFTEN —

Each new subscription or renewal entitles you to send another entry to the Contest. List extra entries on a separate sheet, but be sure to answer question.

Remit the subscriber's payment by postal note, money order, or by cash along with his signature and address direct to FARM AND RANCH REVIEW, Box 620, Calgary, Alta.

QUESTION: WHO IS THE AGRICULTURE MINISTER OF CANADA ?

MY ANSWER :

MY NAME AND ADDRESS :

Enclosed please find \$1.00 for a full TEN YEARS' subscription to THE FARM AND RANCH REVIEW, which I have sold to :—

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PLEASE INDICATE WHETHER : NEW **or RENEWAL**

Grazing knowledge is important

MANY an easterner has "gone west" to the prairies, purchased a section or two of rangeland and figured all that remained was to put a bunch of cattle on it and grow rich in the ranching business.

But the dream bubble bursts with the knowledge that a section of natural grassland will only grubstake from 15 to perhaps 35 cows, depending on the quality of the range.

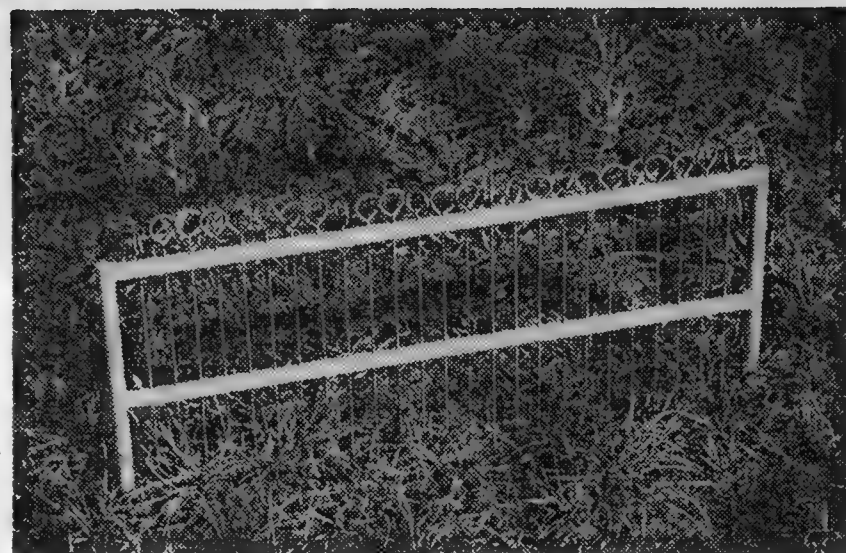
Still, about 55 million acres

of range in the west, much of it unsuitable for other purposes, is worth nearly \$200,000,000.00 annually to western stockgrowers in grazing benefits.

This rangeland provides about half the food for nearly 5,000,000 cattle, close to 600,000 sheep, and notwithstanding the supposed disappearance of the horse, a half million horses.

The above load on western ranges is not severe in good growing years, but the same numbers of stock in dry years could be heavy indeed.

It can readily be seen, then, that it is important for those



Swift Current Experimental Farm

This odd-looking instrument is called a point-quadrat and was developed by research men to measure the cover of prairie pastures. It is part of the system that has been developed to measure the grazing capacity of a land with fair accuracy.

4 inches) apart, but the frame now used has 36 pins on 1-inch centers.

Yields are calculated from the data obtained. Each grass species has a yield index per unit stand which has been determined from a clipping study carried out over the years. Yields estimated by the point-quadrat method are always higher than clipped yields in years of poor growth. Partial records from two sites are presented in the table on these pages to illustrate the calculation procedure.

The point-quadrat data was also used to establish approximate boundaries of the different grass associations.

In southern Alberta and southwestern Saskatchewan, blue grama grass dominates an association known as the short-grass prairie. Its grazing capacity ranges from 20 to 40 acres per cow per season, so one can see that: "Give me land, lots of land — don't fence me in" could well be the western rancher's theme song.

In the foothills of the Rocky Mountains, the Cypress Hills and the northeastern corner of the Prairie, the grass cover con-

Calculated Yields from Short-Grass and Fescue Prairie Sites

Association and Species	Percentage Cover	Yield Index per 1 per cent cover	Yield in lb. per-acre
Short-grass Prairie			
Blue grama	6.5	16.5	107.5
Common spear grass	1.7	50.0	85.0
Wheat grass	1.1	65.0	71.5
June grass	0.5	48.0	24.0
	9.8	—	288.0
Fescue Prairie			
Rough fescue	7.5	97.0	727.5
Oat grasses	2.1	58.0	121.8
Wheat grass	1.1	65.0	71.5
June grass	0.3	48.0	14.4
	11.0	—	935.2

concerned to know something about the stock carrying capacity of rangeland, and to have a satisfactory means of determining that capacity.

Such a means is available by the point-quadrat system which was developed to measure the cover of prairie pastures. A system has been developed which allows the grazing capacity to be measured with fair accuracy.

Mr. J. B. Campbell, in charge of Pasture Investigations at the Swift Current Experimental Farm, recently described the point-quadrat and the findings obtained with it, in an article in "Research for Farmers".

"The point-quadrat instrument is a simple frame from which pointed pins extend. If the point of a pin touches the crown of a plant, or a stem below its first node, that hit is recorded as vegetation — nothing is recorded if bare ground is hit. This instrument not only estimates the total ground cover, but also the proportion of each plant species in the association. From 2,000 to 4,000 points are examined for each site, and the data calculated in terms of percentage cover for each species. The original instrument used had 10 pins a decimeter (about



Swift Current Experimental Farm

The western prairies have plenty of this type of sparsely grassed rangeland. The soil is fertile but in many places thin, and ever-increasing attention is being given to selection of forage varieties and chemical fertilizers which will maintain and improve this fertility.

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sists largely of fescues, oat and wheat grasses, and produces enough feed on from 6 to 18 acres to carry a cow during the summer. The term "fescue prairie" has been suggested for this association.

The true-grass prairie association is found in the north-eastern section of the prairies and is characterized by the presence of little and big bluestem, Indian grass, cord grass, spear grass and wheat grass. True-grass prairie has a carrying capacity ranging between 4 and 20 acres per cow per season. Because large sections of both the fescue and true-grass prairies have been invaded by poplar and willow, both regions are often referred to as the "Park Belt" or "Grove Belt".

Mixed grass prairie is the natural cover of the central prairies. Spear grass and wheat grasses are the dominant species, but species from all other associations may be present in considerable quantities. The carrying capacity of this range is from 15 to 25 acres per cow each season.

Many factors have an important bearing on capacity. Early research showed the value of providing a carryover—"don't graze all that grows." Protection during May and June results in more feed being provided during the mid-summer.

With the realization that introduced crested wheat grass grew rapidly and produced palatable spring forage, stockmen seeded considerable acreages to this hardy grass for spring pasture.

The distance to water influences the practical use of range. Cattle do not like to graze farther away from water than about a mile and a quarter.

Well placed salt sites, fences and shelters add to animal health and comfort and for easier handling of cattle. Practice has demonstrated the value of such things and stockmen generally are using them to utilize and conserve grass, and to thus maintain a balanced range economy.

New problems are always apparent as more knowledge of rangelands becomes available. Whereas spring pasture is needed in the southern prairies to complement the native grass, supplementary autumn pasture is equally important for the northern parkland and forest regions.

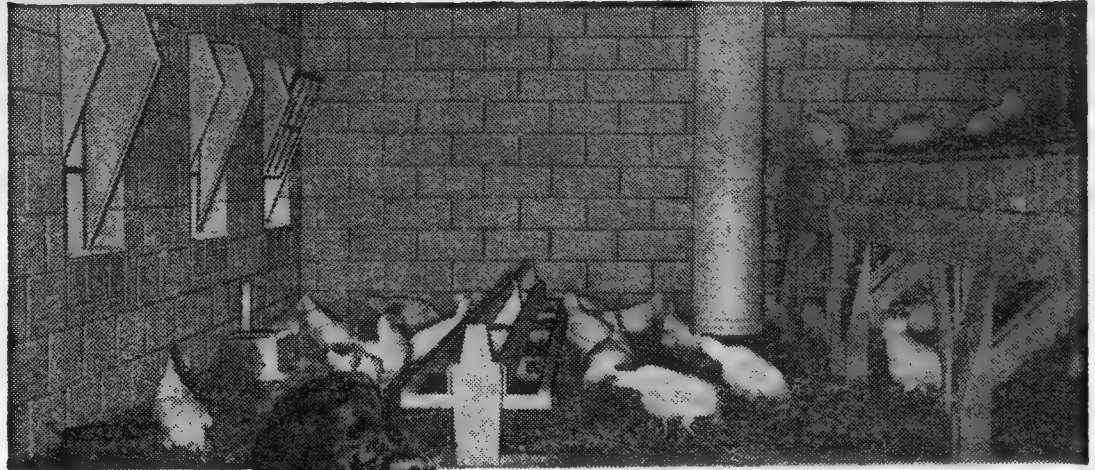
Because our climate is so whimsical and because grass production is in direct ratio to summer rainfall there is always the problem of estimating the increase of carrying capacity during good growing years, and its decrease in dry years. The inclusion of a drought-tolerant legume would improve the quality of mid-summer forage, and the development of the new creeping-rooted types of alfalfa, such as Rambler, may be the answer."

Beekkeepers should keep busy

BEESKEEPERS should not relax just because the season is over and the honey extracted and disposed of, says Alberta's Supervisor of Apiculture, J. W. Edmunds. Cold weather, he states, is the most suitable time for handling honey combs since they become rather brittle. Preparations for next year's bees should be undertaken now. Brood chambers should be pro-

vided with two frames of honey and two frames of pollen. If enough honey is not available in the spring, syrup will have to be fed. Damaged frames or drone brood combs can be salvaged by melting wax from them. Frames should be wired and ready to have foundation put in next spring. It is not advisable to do this in the cold weather. And, all supers should be repaired, sorted and stacked in marked sections so that next

season's operations will not be slowed down.



POULTRYMEN,

HERE'S A FREE BOOK

with a lot

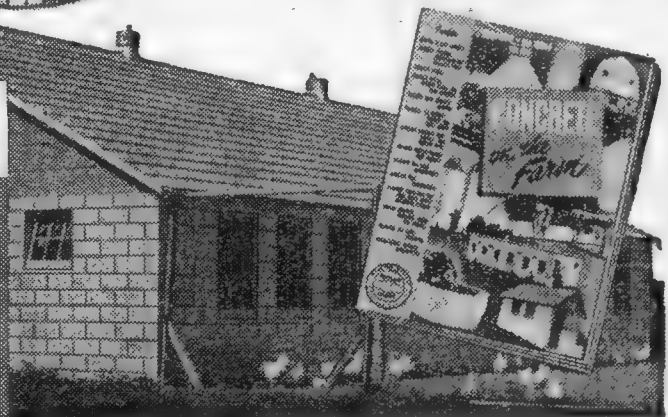
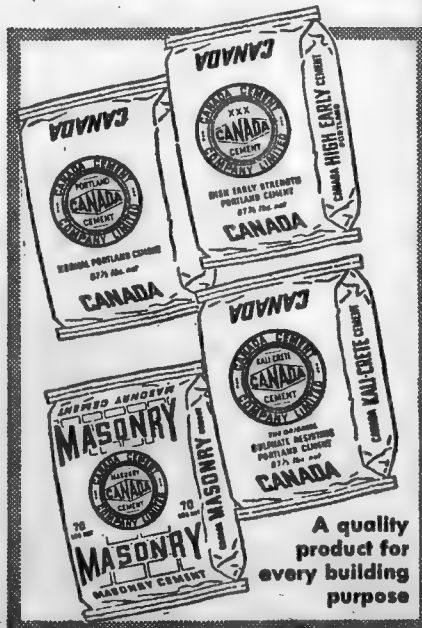
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BATTERY WEAK? DEAD? RUN DOWN? Easy starting, better lights. Longer life after "Battery-Reviver" treatment. Price, \$1.50 (6 or 12-volt battery), 3 packages, \$3.50. Treatment for 32-volt light plant, \$10. Guaranteed satisfaction. Western Distributors, Box 24BR, Regina, Sask.

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EARN MORE! Bookkeeping, Salesmanship, Shorthand, Typewriting, etc. Lessons, 50c. Ask for free circular No. 34. Canadian Correspondence Courses, 1290 Bay Street, Toronto.

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ALL MAKES OF DOLLS REPAIRED by experts. Rubber arms and legs bought. 324 - 24th Avenue S.W., Calgary, Alberta. Phone AM 6-3565.

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AUCTIONEERING CAN BE FOR YOU. Write for information. Western College of Auctioneering, Box 1458-FR, Billings, Montana.

FARMS FOR SALE

BUYING OR SELLING FARMS OR RANCHES OF ANY SIZE CONSULT KEN LENNOX TOOLE, PEET & CO. LTD. FARM AND RANCH DIVISION, TOOLE, PEET BLDG., CALGARY 809 - 2nd St. W.

FARM EQUIPMENT

O.K. ENSILAGE CUTTER — Big capacity at low speed. Rubber tired on all 4 wheels. Extra features such as packer wheel for loose straw or hay. Special \$595.00. Ribtor Sales, 605 - 2nd St. E., Calgary.

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NEW TYPEWRITERS, ADDING MACHINES or CASH REGISTERS. Lowest Terms. Popular Name Brands. Mail orders promptly filled. Write Hollywood Distributors, 9397A - 85th Street, Edmonton, Alberta.

LIVESTOCK

PARSLOW & DENOON, Stock-yards, Calgary, Alberta, the oldest Livestock Commission Merchants in Alberta. Established since 1915. Office: BR 3-5058; BR 3-5755; Night CHery 4-1651; CHery 4-2848.

YOUR LIVESTOCK COMMISSION AGENT, PAUL & McDONALD, prompt, efficient service. Office telephone: BR 3-5301 and BR 3-2242; Residence CHery 4-0485; ATLAS 3-1738, Calgary, Alberta.

ADAMS, WOOD & WEILLER LTD., livestock Commission Agents, Alberta Stock-yards, Calgary. Phones: BR 3-5121; Nights: CHery 4-8075; CHery 4-2650.

LIVESTOCK INSURANCE

PROTECT YOUR INVESTMENT — INSURE CATTLE, individually or by herds, approximately 5% less for herds, calving risks included, **INSURE HORSES** (racers included) 4%—foaling risks. Insure Foot-and-mouth disease — poultry flocks — and dogs, policies include fire and lightning — **POLICIES ISSUED BY MAIL, ANYWHERE** — Send for application and Vet's report in blank — state value. National Livestock Insurance Agency, (also handles all other insurance — by mail). Forest Lawn, Alberta, BR 2-4059. Salesmen or women enquiries invited.

PERSONAL

FREE: INSTRUCTIVE BIBLE LITERATURE. ANY QUESTIONS ANSWERED ON SUBJECT — WHAT MUST WE DO TO GAIN ETERNAL LIFE? JOHN GIZEN, PRELATE, SASK.

Average yields

RELATIVE yields of wheat, oats and barley on fallow have been studied for 26 years on Swift Current Illustration Stations. An average of 132-Station years reveals wheat yielding 20.7 bushels per acre, oats 40.4 bushels per acre, and barley 32.9 bushels per acre.

PERSONAL

ACTUAL JOBS in Canada, U.S., So. Am., Europe. To \$15,000. Travel paid. Write Employment Info. Center, Room C-6, 470 Stuart St., Boston 16.

SPECTACLES FROM \$3.00 — Ten pairs sent to test your eyes. Give age. Satisfaction or money returned. Salway & Rowe, Box 365, Cardston, Alta.

ADULTS — SEND FOR YOUR FREE CATALOGUE ON PERSONAL HYGIENIC SUNDRIES to Western Universal Sales, Box 390, Varsity View, Manitoba.

\$100 - \$500 MORE paid for your child's photo, if selected for advertising illustrations, etc. Hundreds used weekly. Rush photo for approval. Returned promptly. Free service. AD-PHOTOS, 6087-FX Sunset, Hollywood, 28, California.

REINCARNATION — Each of us is a reincarnating being, ignorant both of his present and his former transformations.

THRILLING ZODIAC READING—Health, Prospects, Events, Money outlook, Love, Friendship, etc. Send 15c (coin or stamps) for your true, amazing Forecast. State birth date. NEWTON VALE (M. 5), 106 Adelaide Street West, Toronto.

DR. DICKINSON'S NEW BIRTH CONTROL MANUAL (Illustrated), \$2.00; Cotes Triple Strength Female pills for pre-period tension, \$5.00. Smart women always keep them on hand. Special low prices on high quality personal supplies. Western Specialties, Box 814, Saskatoon.

FREE TO ADULTS! Catalogue of personal hygiene sundries, herbs, books, jokers' novelties. Also receive free — Birth Control booklet and comical joke card. Western Distributors, Box 24-DR, Regina, Sask.

MARRIED MEN! WOMEN! WANT that old-time pep and vigor? For amazing pleasant surprise try Vita Perles, \$2, or Menna, \$3, or both \$4.60, in plain, sealed package. Western Distributors, Box 24-NJR, Regina, Sask.

LADIES! NEW IMPROVED DUPREE PILLS! Help relieve pain, associated with monthly periods, \$3.00, or (Triple strength) Cotes pills \$5.00. Air mailed. Western Distributors, Box 24AR, Regina, Sask.

QUIT SMOKING, CHEWING TOBACCO, snuff easily, quickly, reliable, tested remedy. Satisfaction or money refunded. Save your health and money! Complete treatment, \$1.95. Western Distributors, Box 24-WR, Regina, Sask.

POEMS

AUTHORS INVITED SUBMIT MSS., all types (including poems) for book publication. Reasonable terms. Stockwell Ltd., Ilfracombe, England, (estd. 1893).

RABBITS

RAISE ANGORA, NEW ZEALAND RABBITS on \$500 month plan. Plenty markets. Free details. White's Rabbitry, Dept. R, Delaware, Ohio.

SEEDS

LIMITED SELECTED STOCKS OF AN IMPROVED AMERICAN VARIETY OF SWEET CLOVER available, to be let out on contract for the American market. This clover is wilt resistant and restores a much greater amount of nitrogen in the soil than ordinary Yellow Blossom. It sells at a higher price. Write us immediately for further information while the seed lasts. Costs \$1.40 per seeded acre. Newfield Seeds Limited, Nipawin, Saskatchewan.

TOBACCO

FOREIGN CIGARETTES FROM BELGIUM, HOLLAND and Italy, Ireland, etc., etc., samples for sale. Germain Bourassa, St. Barnabe North, Quebec.

TRACTOR PARTS

FREE TRACTOR PARTS CATALOG — 1959 Edition. Tremendous savings. World's largest combination stock of guaranteed new and used parts. Central Tractor Parts Co., Des Moines, Iowa, U.S.A.

DEPRESSION PRICES. WE SELL CHEAP. SAVE 75% off-new and used tractor parts, crawlers and wheel tractors. 190 makes and models. 1959 catalog ready. Send 25 cents refundable. Surplus Tractor Parts Corporation, Fargo, N. Dak.

Still too many weed seeds

THE 1958 seed grain survey indicates that not enough attention is being paid to sowing clean seed, according to weed specialists at the Saskatchewan Department of Agriculture.

But a somewhat better seed-cleaning job seems to have been done with 37.5 per cent of cleaned seed rejected, compared to almost 52 per cent in the 1957 survey. The 1958 figure is the lowest it has been in the six years of survey.

Don't cramp farmsite

A COMMONLY found mistake in farmstead shelter-belt planting is that too little room has been left within the enclosure for future expansion. If the farm is on a quarter section at least 5 acres of that area should be set aside for the farmstead to allow, among other things, proper spacing between buildings and shelter-belts. Holdings larger than a quarter section require about 10 acres.

Protect from the freezing cold

FOOTBALL fans bundle up warm and tote along an extra blanket to keep from freezing. Milk and cream, if not transported in an insulated van, can stand some coddling too! Cover cans with a blanket or heavy tarpaulin. Unprotected metal containers conduct the cold and if left outdoors for long periods of time in winter their content readily freezes. Try to make it a point never to leave shipments of cream on station platforms in freezing temperatures for over half an hour.

Frozen milk or cream is very undesirable because when it undergoes this physical change the water separates from the protein and never reunites in the same smooth homogeneous way afterwards. This makes correct sampling practically impossible. Such products suffer a loss of quality and a mealy or rough taste can be detected.

Frozen milk or cream also causes delay in processing dairy

products and at some creameries it may hold up the farmer's pay cheque.

Wild oats thrive in drouth

THERE was positive evidence in 1958 that the wild oats plant is remarkably well endowed to assure its successful growth amid adversities that spell failure for countless other plants. The hot, dry weather of spring and early summer encouraged the growth of wild oats seed that had been accumulating in the soil for years. Plants emanating from seed even to a depth of six inches were common-place. Repeated tillage and delayed seeding of crops up to the middle of June failed in many instances to prevent the persistent growth of this weed. Little wonder then, that farmers anxiously and hopefully look to the day when herbicides will be discovered that will afford a practical solution to the problem.

A 4-H SHEEP CLUB consisting of 40 enthusiastic boys and girls ranging in age from 10 to 21 has been organized in Prince Albert.

Mr. Farmer . . . THE NEW IMPROVED Nelson Farm Record

(Compliments of your Bulk Oil & Gas Agent)

FREE

Ask for it, available at most Bulk Agents and Farm Dealers. The Most Extensively Used Farm Bookkeeping System in Canada. 204 Loughheed Bldg., CALGARY, Alta.

ATTENTION . . . Farmers & Contractors

Save up to 55% by dealing with Canada's largest Rebuilders of all makes of Diesel Engines, Cracked Cylinder Heads, Blocks, Transmission Cases and Diesel Pumps. Fast, efficient exchange service. New Warranty Guarantee.

Send your troubles direct to us

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Solution To Crossword Puzzle

TIERCE	ARADA	BITES	ASTIR
IGNORE	DETER	OMEGA	LEAVE
NU TAR	UP NA	UP ORAL	XAT
SAT	BIOLOGY	SLAMS	LUPINE
ENOW	ERASE	LADLE	RUDE
LANES	ATE	LEVEE	PEDESTAL
	SPATE	FEVER	BREED
ATTIRE	SAVED	DROLL	SPIN
ARRENT	PERIL	BAITS	TWINE
SCARE	CANES	SENSE	PEERED
PAIN	CARTS	BLACKSTONE	
ERN	SANTA	SLATE	TRESTLES
ROSSETTI	SPANS	SAUTE	ONE
	CLASSICIST	CENTS	PACA
SOLEMN	ARAKE	WRATH	FAVOR
ARENA	SNORE	SHAWS	PARERS
LIRE	PAINE	SHINS	MOROSE
MOO	PALSY	INANE	TOTAL
ANTIETAM	SNAKE	BUG	OEARS
	TRET	CAORE	FORUM
STRAIN	MARIE	CAMELOT	MAE
ARO	ATTA	DA	HO BE
GALOP	ARDEN	ALDEN	TREMOR
SPENT	ROLLS	SEERS	SERINS

Review of OPERATIONS

Alberta Wheat Pool, 1957-58

In 1957-58 The Alberta Wheat Pool:

- Handled 56,900,000 bushels of grain or 37 per cent of grain marketed in Alberta.
- Operated 533 country elevators and terminals at Vancouver and Port Arthur, having a combined capacity of 50,000,000 bushels.
- Had membership of over 48,000 farmers.
- Made savings for members of \$2,365,000, before income tax.

Earnings from the 1957-58 season are to be distributed as follows:

	Cents per Bus.
Wheat and flax	4.98
Oats, barley and rye	2.49

The dividend will be paid partly in cash and partly in valuable Wheat Pool reserves.

The cash portion will be distributed by Pool agents in the spring.

Since its inception in 1923, the Alberta Wheat Pool has:

- Handled 1 - 1/3 billion bushels worth \$1 - 1/3 billion.
- Distributed patronage dividends worth \$23,000,000 — \$8,500,000 in cash and \$14,500,000 in reserves.
- Purchased \$12,700,000 in reserves from members.
- Has continuously worked in the interests of its farmer-members to provide service, savings and protection.



Watch out for trouble

JOHNSON GRASS is a troublesome weed which reaches a height of about 5 feet and one which Western Canadian farmers are better off without. It is a weed which flourishes in the U.S. Corn Belt and the danger of it being introduced to the Canadian prairies is through Sorghum Almun seed. Sorghum Almun is not a forage species that could be licensed, but is a hybrid of Sorghum and Johnson weed. Its seed which shatters readily is difficult to identify from Johnson grass seed. Little is known of the weed's winter hardiness in Canada, experts of the Canada Department of Agriculture say, and it could perhaps thrive here and become a problem. They add, that farmers should give careful thought to the possible serious threat of introducing this grass until more experimental data on Sorghum Almun is available.

Bad smells

REMOVE milk from the barn right after milking. Barn and feed odors are readily picked up by milk. Where silage or strong feeds are being fed, it is well to feed them after milking so that their flavor is not absorbed by the milk.

Cheese for Britain

THE Agricultural Stabilization Board has recently completed sale of about 10,000,000 pounds of Canadian cheddar cheese for export to the United Kingdom.

Sales were made from stocks acquired by the Board during the summer from the 1958 cheese production.

Lost soil costly

AROUND \$300 worth of commercial fertilizer would be needed to replace the nitrogen and phosphorus lost from the erosion of just one inch of top soil off one acre of land, according to H. M. (Chris.) Holm, soils specialist with the Saskatchewan Department of Agriculture.

One inch of an average top soil, he said, contains approximately 1,500 pounds of nitrogen, 300 pounds of phosphorus as well as 15 tons of organic matter per acre. The fertility loss from one inch of top soil could have produced twenty-five, 30-bushel crops.

Plan it now

THIS is the time to discuss your landscape ideas for next year with your local nursery man, or your agricultural representative. Mistakes made in the past season are fresh in your mind, and it is well to plan early. Some of the factors to be considered, say the experts, are the ease of maintenance, the cost of materials and the attractiveness of the landscaping.

In Manitoba, home owners can obtain from the government, "Recommended Horticultural Varieties," a list of varieties hardy in your area.

Hy-Line®

934 Series White Egg Layers

* * *

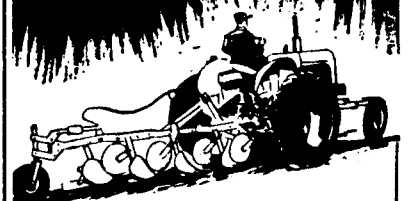
Tops in all 4
income factors—

- high production
- livability
- feed efficiency
- large white eggs

Order from

AGNEW CHICKS LTD.
CALGARY, ALTA.
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UNDER-POWERED FOR TOUGH SPOTS?



HAVE YOUR DEALER INSTALL M & W add-POW'R BIGGER LIGHTWEIGHT PISTONS AND SLEEVES

M & W add-POW'R pistons and sleeves will add 3 to 12 more horse power to your present tractor — cut fuel and repair bills. M & W get this extra power by increasing the diameter of the piston, and by using lightweight aluminum alloy.

Offset pins and chrome rings give longer wear. Sets are individually matched and balanced to reduce vibration for safe, extra power that even an old tractor can handle.

Write for free literature.

Allied Farm Equipment Ltd.,
Box 53, Winnipeg, Man.

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Box 1184, Regina, Sask.

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Northwest Farm Equipment Ltd.
Box 351, Calgary, Alta.

JOHN DEERE

Surflex

The "Can-Do" Disk Tiller

That Speeds Work, Reduces Costs

IN SUMMER-FALLOW, after-harvest tillage, and seedbed-making, there's plenty of "can-do" in this outfit—a 20-foot 1200 Series *Surflex* behind a John Deere "830" Diesel Tractor.

ACRES and hours of tillage work melt away when you tackle the job with a John Deere *Surflex*. Here is a flexible tiller that penetrates and stays in the ground . . . a big, cost-cutting tiller that does excellent work at a wholesale rate.

Bring on your gumbo . . . your hard-baked soil . . . your heavy stubble. The John Deere *Surflex* takes every condition in stride. Grain growers everywhere are profiting more from its time-saving, work-saving, maintenance-saving features.

Step up to a *Surflex*. You'll like its husky tubular-steel frame . . . variable size . . . anti-friction bearings with triple

blowout-proof seals . . . cross-rolled, mesh-grain disks that resist splitting and chipping . . . easy adjustments . . . hydraulic or screw-crank lift.

The *Surflex* is available in two types—the 8- to 20-foot standard type for penetrating 2 to 5 inches deep, and the 7- to 14-foot deep-working type for penetrating as deep as 9 inches.

In all *Surflex* Tillers, you get rugged stress-balanced construction and parallel-flex gangs that penetrate uniformly across the full width of cut for thorough, even-depth work. Get complete information now from your John Deere dealer.

SEEDING ATTACHMENT lets you break ground and plant seed at the same time, in a fast, once-over operation. It's available for all 1200-S Series *Surflex* Tillers.

JOHN DEERE

"WHEREVER CROPS GROW, THERE'S A GROWING DEMAND FOR JOHN DEERE FARM EQUIPMENT"



JOHN DEERE PLOW COMPANY, LTD.

Winnipeg • Regina • Calgary • Hamilton

Please send free folder on *Surflex* Tillers and Tiller-Seeders.

Name ☐ Student

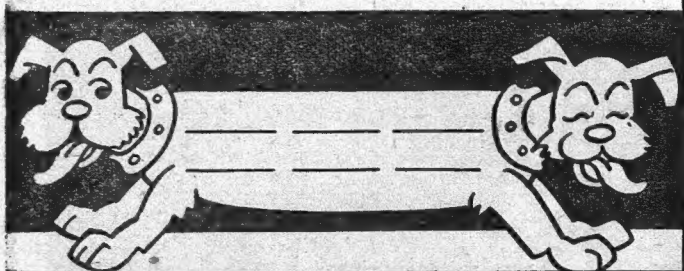
Route Box

Town Province

SEND
FOR FREE
Booklets

ORDER RED TO PUT UP

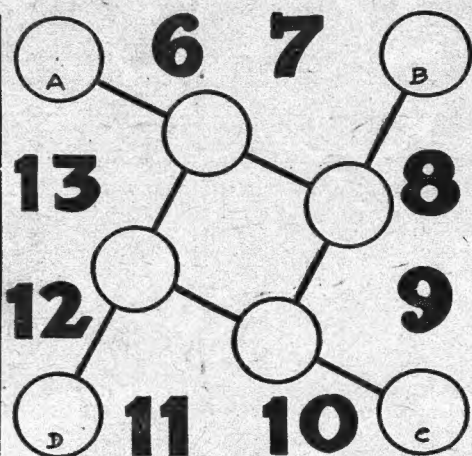
CAN YOU PRINT THE ABOVE WORDS OVER THE DASHES BELOW. HERE'S THE CATCH: THE LETTERS MUST FORM A SENTENCE THAT WILL READ THE SAME FORWARD AS BACKWARD.



RED ROOT PUT UP TO ORDER!! IS CORRECT

TRANSFER THE GIVEN NUMBERS INTO THE CIRCLES, SO ARRANGED THAT EACH OF THE FOUR ROWS TOTAL WILL 27.

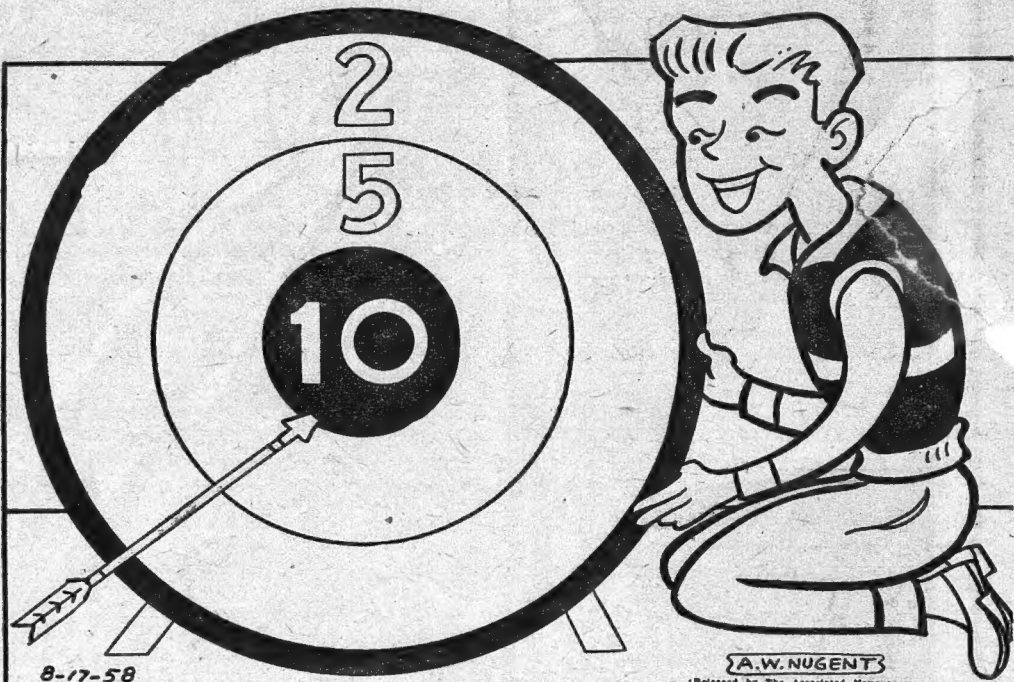
A ROW 9, 7, 11
B ROW 10, 11, 6
C ROW 13, 6, 8
D ROW 12, 8, 7



EX LIBRIS
UNIVERSITATIS
ALBERTENSIS

D by A.W. NUGENT
The WORLD'S
LEADING
PUZZLEMAKER
ENTERTAINER

ARCHIE ARCHER SCORED 250 POINTS AT TARGET PRACTICE... HE HIT THREE TIMES AS MANY 5'S AS 2'S AND THE BALANCE OF HIS SHOTS WERE BULL'S-EYES, 10'S.
HOW MANY 2'S, 5'S AND 10'S DID HE HIT?



8-17-58

A.W. NUGENT

(Released by The Associated Newspapers)

HE HIT TEN 2'S (20) THIRTY 5'S (150) AND EIGHT 10'S (80) TOTAL: 250

QUIZ FUN WE ARE EIGHT FRUITS. WHAT ARE OUR NAMES ?



8-17-58

1 I AM AN APPOINTMENT.	2 MY NAME SUGGESTS TWO.	3 A COLOR AND A MONKEY, THAT'S ME.	4 I SUGGEST A MOVEMENT OF ELECTRICITY.
5 MY COMPLETE NAME IS A TREE AND A FRUIT.	6 I'M A METAL-BEARING MINERAL AND A COOKSTOVE.	7 I AM 1/2 OF A WORD MEANING NUMBER.	8 MY NAME SUGGESTS VERTICLE

DATE 2, PEAR (PAIR) 3, GRAPE (GRAY APE) 4, CURRANT (CURRENT) 5, PINEAPPLE 6, ORANGE (ORE RANGE) 7, FIG (FIGURE) 8, PLUM (PLUMB)

RHYME TIME

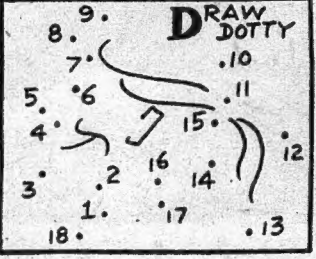


SEE IF YOU CAN THINK OF EIGHT ANIMALS THAT WILL RHYME WITH THE WORDS BELOW.

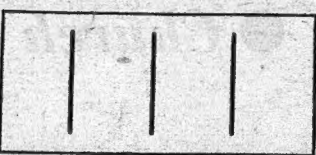
ANY EIGHT WILL DO.

1 MARE	2 TRUNK	3 VOLT	4 VOTE
5 TOOL	6 LINK	7 WOOL	8 SHOE

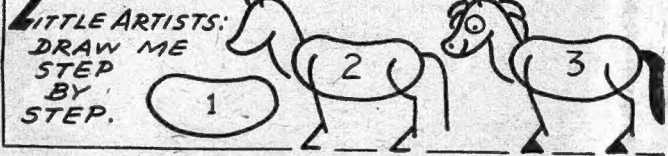
SOLUTION: 1, BEAR 2, SKUNK 3, GOAT 4, MULE 5, MINK 6, BULL 7, GUN



ADD FIVE STRAIGHT LINES TO THOSE BELOW TO SPELL A THREE-LETTER WORD.



IT IS FROZEN WATER.



TRICK YOUR FRIENDS
TAKE FIVE MATCHES OR TOOTHPICKS AND ARRANGE THEM AS PICTURED ABOVE. THEN INVITE SOMEONE TO TAKE AWAY TWO OF THE MATCHES, AND ADD THREE MATCHES SO THAT THE FIGURE WILL REMAIN THE SAME.
WHEN HE FAILS, SIMPLY TAKE THE TWO MATCHES AT THE 1 THEN ADD THE REMAINING TH